

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-1 Long Beach
Semivolatiles - Data Qualification Summary - SDG IQC1776

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------|----------------------|---|---|--------|--------------------------------------|
| IQC1776 | MW3017_WG031507_0001 | 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Hexachlorobutadiene Hexachloroethane 1,2,4-Trichlorobenzene Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(k)fluoranthene Benzyl alcohol Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether Bis(2-ethylhexyl) phthalate 4-Bromophenyl-phenyl ether Butylbenzylphthalate 4-Chloroaniline 2-Chloronaphthalene 4-Chloro-3-methylphenol 2-Chlorophenol 4-Chlorophenyl-phenyl ether Chrysene Dibenzofuran 3,3'-Dichlorobenzidine 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octylphthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorocyclopentadiene Isophorone 2-Methylnaphthalene 2-Methylphenol 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol N-Nitrosodiphenylamine N-Nitroso-di-n-propylamine Phenanthrene Phenol 2,4,5-Trichlorophenol N-Nitrosodimethylamine 1,2-Diphenylhydrazine/Azobenzene | J (all detects) UJ (all non-detects) | P | Laboratory control samples (%R)(RPD) |

Boeing Realty Corp., Bldg C-1 Long Beach
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG IQC1776

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acenaphthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Acenaphthylene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ↓ | 0.948 | 03/16/07 | 03/20/07 | |
| Aniline | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Anthracene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Benzidine | EPA 8270C | 7C16066 | 8.1 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzoic acid | EPA 8270C | 7C16066 | 8.1 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(a)anthracene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(b)fluoranthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(k)fluoranthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(g,h,i)perylene | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(a)pyrene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzyl alcohol | EPA 8270C | 7C16066 | 2.4 | 19 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-chloroethoxy)methane | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-chloroethyl)ether | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-chloroisopropyl)ether | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-ethylhexyl)phthalate | EPA 8270C | 7C16066 | 3.8 | 47 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Bromophenyl phenyl ether | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Butyl benzyl phthalate | EPA 8270C | 7C16066 | 3.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Chloroaniline | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Chloronaphthalene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Chloro-3-methylphenol | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Chlorophenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Chlorophenyl phenyl ether | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Chrysene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ✓ | 0.948 | 03/16/07 | 03/20/07 | |
| Dibenz(a,h)anthracene | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Dibenzofuran | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Di-n-butyl phthalate | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 1,3-Dichlorobenzene | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 1,4-Dichlorobenzene | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 1,2-Dichlorobenzene | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 3,3-Dichlorobenzidine | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dichlorophenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ✓ | 0.948 | 03/16/07 | 03/20/07 | |
| Diethyl phthalate | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dimethylphenol | EPA 8270C | 7C16066 | 3.3 | 19 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Dimethyl phthalate | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4,6-Dinitro-2-methylphenol | EPA 8270C | 7C16066 | 3.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dinitrophenol | EPA 8270C | 7C16066 | 4.3 | 19 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dinitrotoluene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,6-Dinitrotoluene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Di-n-octyl phthalate | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Fluoranthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ↓ | 0.948 | 03/16/07 | 03/20/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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2642507

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Fluorene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Hexachlorobenzene | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Hexachlorobutadiene | EPA 8270C | 7C16066 | 3.3 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| Hexachlorocyclopentadiene | EPA 8270C | 7C16066 | 4.7 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Hexachloroethane | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| Indeno(1,2,3-cd)pyrene | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Isophorone | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Methylnaphthalene | EPA 8270C | 7C16066 | 1.9 | 9.5 | 13 | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Methylphenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Methylphenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Naphthalene | EPA 8270C | 7C16066 | 2.4 | 9.5 | 16 | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Nitroaniline | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 3-Nitroaniline | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Nitroaniline | EPA 8270C | 7C16066 | 2.4 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Nitrobenzene | EPA 8270C | 7C16066 | 2.4 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Nitrophenol | EPA 8270C | 7C16066 | 3.3 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Nitrophenol | EPA 8270C | 7C16066 | 5.2 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| N-Nitrosodiphenylamine | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| N-Nitroso-di-n-propylamine | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | C |
| Pentachlorophenol | EPA 8270C | 7C16066 | 3.3 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Phenanthrene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Phenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Pyrene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 1,2,4-Trichlorobenzene | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 2,4,5-Trichlorophenol | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4,6-Trichlorophenol | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| N-Nitrosodimethylamine | EPA 8270C | 7C16066 | 2.4 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 1,2-Diphenylhydrazine/Azobenzene | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | C |
| Surrogate: 2-Fluorophenol (30-120%) | | | | | 65 % | | | | |
| Surrogate: Phenol-d6 (35-120%) | | | | | 73 % | | | | |
| Surrogate: 2,4,6-Tribromophenol (40-120%) | | | | | 83 % | | | | |
| Surrogate: Nitrobenzene-d5 (40-120%) | | | | | 79 % | | | | |
| Surrogate: 2-Fluorobiphenyl (45-120%) | | | | | 67 % | | | | |
| Surrogate: Terphenyl-d14 (45-120%) | | | | | 71 % | | | | |

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Nicholas Marz
Project Manager

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LDC #: 16591B2
SDG #: IQC1776
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

Tier 3

Date: 4/26/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/15/07 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | % PSD, $r^2 = 0.990$ |
| IV. | Continuing calibration | A | ICV = 25 |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | N | client specified |
| VIII. | Laboratory control samples | SW | see IP |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/CRQLs | A | |
| XIII. | Tentatively identified compounds (TICs) | N | not reported |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: [Signature]

| | | | | | | | |
|----|----------------------|----|--------------|----|--|----|--|
| 1 | MW3017-WG031507_0001 | 11 | 7C16066-BLK/ | 21 | | 31 | |
| 2 | | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

LDC #: 16591B2
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: Semivolatiles (EPA SW 846 Method 8270C)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| II. GC/MS instrument performance check | | | | |
| Were the DFTPP performance results reviewed and found to be within the specified criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples analyzed within the 12 hour clock criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a curve fit used for evaluation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a method blank analyzed for each matrix and concentration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

LDC #: 16591B2
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Was an LCS analyzed per extraction batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X. Internal Standards | | | | |
| Were internal standard area counts within -50% or +100% of the associated calibration standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were retention times within + 30 seconds from the associated calibration standard? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Target Compound Identification | | | | |
| Were relative retention times (RRT's) within + 0.06 RRT units of the standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were chromatogram peaks verified and accounted for? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. Compound Quantitation/CRQLs | | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Tentatively Identified Compounds (TICs) | | | | |
| Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were relative intensities of the major ions within ± 20% between the sample and the reference spectra? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XIV. System Performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XV. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XVI. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field duplicates. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XVII. Field blanks | | | | |
| Field blanks were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field blanks. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|-----------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl) ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. <i>Azobenzene</i> |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

| Y | N | N/A |
|---|---|-----|
| | | |

LCSLCSD.2S

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-----|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
|---------|--------|-----------------|-----|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|

Batch: 7C16066 Extracted: 03/16/07

Blank Analyzed: 03/19/2007 (7C16066-BLK1)

| | | | | | | | | | | | |
|---------------------------------|------|--|--|------|------|--|----|--------|--|--|--|
| Surrogate: Phenol-d6 | 13.6 | | | ug/l | 20.0 | | 68 | 35-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 13.2 | | | ug/l | 20.0 | | 66 | 40-120 | | | |
| Surrogate: Nitrobenzene-d5 | 5.90 | | | ug/l | 10.0 | | 59 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 7.14 | | | ug/l | 10.0 | | 71 | 45-120 | | | |
| Surrogate: Terphenyl-d14 | 7.38 | | | ug/l | 10.0 | | 74 | 45-120 | | | |

LCS Analyzed: 03/19/2007 (7C16066-BS1)

MNR1

| | | | | | | | | | | | |
|-----------------------------|------|----|-----|------|-----|--|-----|--------|--|--|----|
| Acenaphthene | 64.6 | 10 | 2.0 | ug/l | 100 | | 65 | 55-120 | | | |
| Acenaphthylene | 72.4 | 10 | 2.0 | ug/l | 100 | | 72 | 60-120 | | | |
| Aniline | 78.3 | 10 | 2.5 | ug/l | 100 | | 78 | 40-120 | | | |
| Anthracene | 72.1 | 10 | 2.0 | ug/l | 100 | | 72 | 60-120 | | | |
| Benzidine | 147 | 20 | 8.5 | ug/l | 100 | | 147 | 25-160 | | | |
| Benzoic acid | 31.7 | 20 | 8.5 | ug/l | 100 | | 32 | 25-120 | | | |
| Benzo(a)anthracene | 71.5 | 10 | 2.0 | ug/l | 100 | | 72 | 60-120 | | | |
| Benzo(b)fluoranthene | 82.5 | 10 | 2.0 | ug/l | 100 | | 82 | 55-125 | | | |
| Benzo(k)fluoranthene | 82.9 | 10 | 2.0 | ug/l | 100 | | 83 | 50-125 | | | |
| Benzo(g,h,i)perylene | 98.0 | 10 | 3.0 | ug/l | 100 | | 98 | 45-130 | | | |
| Benzo(a)pyrene | 88.8 | 10 | 2.0 | ug/l | 100 | | 89 | 55-125 | | | |
| Benzyl alcohol | 61.3 | 20 | 2.5 | ug/l | 100 | | 61 | 50-120 | | | |
| Bis(2-chloroethoxy)methane | 62.3 | 10 | 2.0 | ug/l | 100 | | 62 | 55-120 | | | |
| Bis(2-chloroethyl)ether | 54.6 | 10 | 2.5 | ug/l | 100 | | 55 | 50-120 | | | |
| Bis(2-chloroisopropyl)ether | 55.2 | 10 | 2.5 | ug/l | 100 | | 55 | 45-120 | | | |
| Bis(2-ethylhexyl)phthalate | 69.2 | 50 | 4.0 | ug/l | 100 | | 69 | 60-125 | | | |
| 4-Bromophenyl phenyl ether | 66.5 | 10 | 2.5 | ug/l | 100 | | 66 | 55-120 | | | |
| Butyl benzyl phthalate | 68.1 | 20 | 4.0 | ug/l | 100 | | 68 | 50-125 | | | |
| 4-Chloroaniline | 63.7 | 10 | 2.0 | ug/l | 100 | | 64 | 50-120 | | | |
| 2-Chloronaphthalene | 61.8 | 10 | 2.0 | ug/l | 100 | | 62 | 55-120 | | | |
| 4-Chloro-3-methylphenol | 61.4 | 20 | 2.0 | ug/l | 100 | | 61 | 55-120 | | | |
| 2-Chlorophenol | 57.6 | 10 | 2.0 | ug/l | 100 | | 58 | 45-120 | | | |
| 4-Chlorophenyl phenyl ether | 63.9 | 10 | 2.0 | ug/l | 100 | | 64 | 60-120 | | | |
| Chrysene | 69.5 | 10 | 2.0 | ug/l | 100 | | 70 | 60-120 | | | |
| Dibenz(a,h)anthracene | 94.5 | 20 | 3.0 | ug/l | 100 | | 94 | 50-135 | | | |
| Dibenzofuran | 64.0 | 10 | 2.0 | ug/l | 100 | | 64 | 60-120 | | | |
| Di-n-butyl phthalate | 75.7 | 20 | 2.0 | ug/l | 100 | | 76 | 55-125 | | | |
| 1,3-Dichlorobenzene | 29.3 | 10 | 3.0 | ug/l | 100 | | 29 | 35-120 | | | L2 |
| 1,4-Dichlorobenzene | 34.4 | 10 | 2.5 | ug/l | 100 | | 34 | 35-120 | | | L2 |

**D
E**

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Nicholas Marz
Project Manager

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IQC1776 <Page 31 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-----|-------|-------------|---------------|--------|-------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | | |
| LCS Analyzed: 03/19/2007 (7C16066-BS1) | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 35.3 | 10 | 3.0 | ug/l | 100 | 35 | 40-120 | F | | | MNR1 L2 |
| 3,3-Dichlorobenzidine | 68.8 | 20 | 3.0 | ug/l | 100 | 69 | 50-135 | | | | |
| 2,4-Dichlorophenol | 56.7 | 10 | 2.0 | ug/l | 100 | 57 | 50-120 | | | | |
| Diethyl phthalate | 69.3 | 10 | 2.0 | ug/l | 100 | 69 | 50-120 | | | | |
| 2,4-Dimethylphenol | 45.8 | 20 | 3.5 | ug/l | 100 | 46 | 35-120 | | | | |
| Dimethyl phthalate | 60.9 | 10 | 2.0 | ug/l | 100 | 61 | 25-120 | | | | |
| 4,6-Dinitro-2-methylphenol | 71.9 | 20 | 4.0 | ug/l | 100 | 72 | 40-120 | | | | |
| 2,4-Dinitrophenol | 68.7 | 20 | 4.5 | ug/l | 100 | 69 | 35-120 | | | | |
| 2,4-Dinitrotoluene | 74.4 | 10 | 2.0 | ug/l | 100 | 74 | 60-120 | | | | |
| 2,6-Dinitrotoluene | 67.9 | 10 | 2.0 | ug/l | 100 | 68 | 60-120 | | | | |
| Di-n-octyl phthalate | 70.1 | 20 | 2.0 | ug/l | 100 | 70 | 60-130 | | | | |
| Fluoranthene | 76.3 | 10 | 2.0 | ug/l | 100 | 76 | 55-120 | | | | |
| Fluorene | 63.5 | 10 | 2.0 | ug/l | 100 | 64 | 60-120 | | | | |
| Hexachlorobenzene | 69.1 | 10 | 2.5 | ug/l | 100 | 69 | 55-120 | | | | |
| Hexachlorobutadiene | 36.9 | 10 | 3.5 | ug/l | 100 | 37 | 40-120 | U | | | L2 |
| Hexachlorocyclopentadiene | 34.2 | 20 | 5.0 | ug/l | 100 | 34 | 20-120 | | | | |
| Hexachloroethane | 27.9 | 10 | 3.0 | ug/l | 100 | 28 | 35-120 | K | | | L2 |
| Indeno(1,2,3-cd)pyrene | 95.4 | 20 | 3.0 | ug/l | 100 | 95 | 45-135 | | | | |
| Isophorone | 52.4 | 10 | 2.0 | ug/l | 100 | 52 | 50-120 | | | | |
| 2-Methylnaphthalene | 58.0 | 10 | 2.0 | ug/l | 100 | 58 | 50-120 | | | | |
| 2-Methylphenol | 59.6 | 10 | 2.0 | ug/l | 100 | 60 | 50-120 | | | | |
| 4-Methylphenol | 63.4 | 10 | 2.0 | ug/l | 100 | 63 | 45-120 | | | | |
| Naphthalene | 55.7 | 10 | 2.5 | ug/l | 100 | 56 | 50-120 | | | | |
| 2-Nitroaniline | 66.6 | 20 | 2.0 | ug/l | 100 | 67 | 60-120 | | | | |
| 3-Nitroaniline | 82.9 | 20 | 2.0 | ug/l | 100 | 83 | 55-120 | | | | |
| 4-Nitroaniline | 85.9 | 20 | 2.5 | ug/l | 100 | 86 | 50-125 | | | | |
| Nitrobenzene | 52.0 | 20 | 2.5 | ug/l | 100 | 52 | 50-120 | | | | |
| 2-Nitrophenol | 58.6 | 10 | 3.5 | ug/l | 100 | 59 | 45-120 | | | | |
| 4-Nitrophenol | 68.6 | 20 | 5.5 | ug/l | 100 | 69 | 40-120 | | | | |
| N-Nitrosodiphenylamine | 64.2 | 10 | 2.0 | ug/l | 100 | 64 | 55-120 | | | | |
| N-Nitroso-di-n-propylamine | 54.1 | 10 | 2.5 | ug/l | 100 | 54 | 45-120 | | | | |
| Pentachlorophenol | 83.2 | 20 | 3.5 | ug/l | 100 | 83 | 45-125 | | | | |
| Phenanthrene | 70.3 | 10 | 2.0 | ug/l | 100 | 70 | 60-120 | | | | |
| Phenol | 58.2 | 10 | 2.0 | ug/l | 100 | 58 | 45-120 | | | | |
| Pyrene | 67.8 | 10 | 2.0 | ug/l | 100 | 68 | 50-125 | | | | |

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IQC1776 <Page 32 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | | |
| LCS Analyzed: 03/19/2007 (7C16066-BS1) | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 40.7 | 10 | 2.5 | ug/l | 100 | | 41 | 45-120 | R | | MNR1 L2 |
| 2,4,5-Trichlorophenol | 61.9 | 20 | 3.0 | ug/l | 100 | | 62 | 50-120 | | | |
| 2,4,6-Trichlorophenol | 63.2 | 20 | 3.0 | ug/l | 100 | | 63 | 50-120 | | | |
| N-Nitrosodimethylamine | 51.3 | 20 | 2.5 | ug/l | 100 | | 51 | 40-120 | | | |
| 1,2-Diphenylhydrazine/Azobenzene | 64.0 | 20 | 2.0 | ug/l | 100 | | 64 | 55-120 | | | |
| Surrogate: 2-Fluorophenol | 10.9 | | | ug/l | 20.0 | | 54 | 30-120 | | | |
| Surrogate: Phenol-d6 | 11.4 | | | ug/l | 20.0 | | 57 | 35-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 14.1 | | | ug/l | 20.0 | | 70 | 40-120 | | | |
| Surrogate: Nitrobenzene-d5 | 5.54 | | | ug/l | 10.0 | | 55 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 6.42 | | | ug/l | 10.0 | | 64 | 45-120 | | | |
| Surrogate: Terphenyl-d14 | 6.96 | | | ug/l | 10.0 | | 70 | 45-120 | | | |
| LCS Dup Analyzed: 03/19/2007 (7C16066-BSD1) | | | | | | | | | | | |
| Acenaphthene | 90.2 | 10 | 2.0 | ug/l | 100 | | 90 | 55-120 | 33 | 20 | GG R-7 |
| Acenaphthylene | 98.1 | 10 | 2.0 | ug/l | 100 | | 98 | 60-120 | 30 | 20 | DD R-7 |
| Aniline | 82.9 | 10 | 2.5 | ug/l | 100 | | 83 | 40-120 | 6 | 30 | |
| Anthracene | 90.8 | 10 | 2.0 | ug/l | 100 | | 91 | 60-120 | 23 | 20 | VV R-7 |
| Benzidine | 149 | 20 | 8.5 | ug/l | 100 | | 149 | 25-160 | 1 | 35 | |
| Benzoic acid | 32.5 | 20 | 8.5 | ug/l | 100 | | 32 | 25-120 | 2 | 30 | |
| Benzo(a)anthracene | 90.6 | 10 | 2.0 | ug/l | 100 | | 91 | 60-120 | 24 | 20 | CCC R-7 |
| Benzo(b)fluoranthene | 99.2 | 10 | 2.0 | ug/l | 100 | | 99 | 55-125 | 18 | 25 | |
| Benzo(k)fluoranthene | 104 | 10 | 2.0 | ug/l | 100 | | 104 | 50-125 | 23 | 20 | HHH R-7 |
| Benzo(g,h,i)perylene | 117 | 10 | 3.0 | ug/l | 100 | | 117 | 45-130 | 18 | 25 | |
| Benzo(a)pyrene | 108 | 10 | 2.0 | ug/l | 100 | | 108 | 55-125 | 20 | 25 | |
| Benzyl alcohol | 85.6 | 20 | 2.5 | ug/l | 100 | | 86 | 50-120 | 33 | 20 | QQ R-7 |
| Bis(2-chloroethoxy)methane | 85.8 | 10 | 2.0 | ug/l | 100 | | 86 | 55-120 | 32 | 20 | P R-7 |
| Bis(2-chloroethyl)ether | 74.2 | 10 | 2.5 | ug/l | 100 | | 74 | 50-120 | 30 | 20 | B R-7 |
| Bis(2-chloroisopropyl)ether | 75.8 | 10 | 2.5 | ug/l | 100 | | 76 | 45-120 | 31 | 20 | MMM R-7 |
| Bis(2-ethylhexyl)phthalate | 89.2 | 50 | 4.0 | ug/l | 100 | | 89 | 60-125 | 25 | 20 | EEE R-7 |
| 4-Bromophenyl phenyl ether | 89.2 | 10 | 2.5 | ug/l | 100 | | 89 | 55-120 | 29 | 25 | RR R-7 |
| Butyl benzyl phthalate | 88.2 | 20 | 4.0 | ug/l | 100 | | 88 | 50-125 | 26 | 20 | AAΔ R-7 |
| 4-Chloroaniline | 88.2 | 10 | 2.0 | ug/l | 100 | | 88 | 50-120 | 32 | 25 | T R-7 |
| 2-Chloronaphthalene | 85.1 | 10 | 2.0 | ug/l | 100 | | 85 | 55-120 | 32 | 20 | AA R-7 |
| 4-Chloro-3-methylphenol | 85.6 | 20 | 2.0 | ug/l | 100 | | 86 | 55-120 | 33 | 25 | V R-7 |
| 2-Chlorophenol | 78.1 | 10 | 2.0 | ug/l | 100 | | 78 | 45-120 | 30 | 25 | C R-7 |
| 4-Chlorophenyl phenyl ether | 89.0 | 10 | 2.0 | ug/l | 100 | | 89 | 60-120 | 33 | 20 | MM R-7 |

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IQC1776 <Page 33 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | | |
| LCS Dup Analyzed: 03/19/2007 (7C16066-BSD1) | | | | | | | | | | | |
| Chrysene | 92.3 | 10 | 2.0 | ug/l | 100 | | 92 | 60-120 | 28 | 20 PVD | R-7 |
| Dibenz(a,h)anthracene | 113 | 20 | 3.0 | ug/l | 100 | | 113 | 50-135 | 18 | 25 | |
| Dibenzofuran | 87.7 | 10 | 2.0 | ug/l | 100 | | 88 | 60-120 | 31 | 20 JJ | R-7 |
| Di-n-butyl phthalate | 90.8 | 20 | 2.0 | ug/l | 100 | | 91 | 55-125 | 18 | 20 | |
| 1,3-Dichlorobenzene | 41.4 | 10 | 3.0 | ug/l | 100 | | 41 | 35-120 | 34 | 25 P- | R-2 |
| 1,4-Dichlorobenzene | 45.3 | 10 | 2.5 | ug/l | 100 | | 45 | 35-120 | 27 | 25 E- | R-2 |
| 1,2-Dichlorobenzene | 48.2 | 10 | 3.0 | ug/l | 100 | | 48 | 40-120 | 31 | 25 F- | R-2 |
| 3,3-Dichlorobenzidine | 93.8 | 20 | 3.0 | ug/l | 100 | | 94 | 50-135 | 31 | 25 BBB | R-7 |
| 2,4-Dichlorophenol | 79.1 | 10 | 2.0 | ug/l | 100 | | 79 | 50-120 | 33 | 20 QX | R-7 |
| Diethyl phthalate | 88.0 | 10 | 2.0 | ug/l | 100 | | 88 | 50-120 | 24 | 30 | |
| 2,4-Dimethylphenol | 67.9 | 20 | 3.5 | ug/l | 100 | | 68 | 35-120 | 39 | 25 O | R-7 |
| Dimethyl phthalate | 79.9 | 10 | 2.0 | ug/l | 100 | | 80 | 25-120 | 27 | 30 | |
| 4,6-Dinitro-2-methylphenol | 89.2 | 20 | 4.0 | ug/l | 100 | | 89 | 40-120 | 21 | 25 | |
| 2,4-Dinitrophenol | 89.6 | 20 | 4.5 | ug/l | 100 | | 90 | 35-120 | 26 | 25 HH | R-7 |
| 2,4-Dinitrotoluene | 94.7 | 10 | 2.0 | ug/l | 100 | | 95 | 60-120 | 24 | 20 KK | R-7 |
| 2,6-Dinitrotoluene | 91.8 | 10 | 2.0 | ug/l | 100 | | 92 | 60-120 | 30 | 20 EE | R-7 |
| Di-n-octyl phthalate | 94.5 | 20 | 2.0 | ug/l | 100 | | 94 | 60-130 | 30 | 20 FFF | R-7 |
| Fluoranthene | 94.1 | 10 | 2.0 | ug/l | 100 | | 94 | 55-120 | 21 | 20 YY | R-7 |
| Fluorene | 89.1 | 10 | 2.0 | ug/l | 100 | | 89 | 60-120 | 34 | 20 NN | R-7 |
| Hexachlorobenzene | 88.1 | 10 | 2.5 | ug/l | 100 | | 88 | 55-120 | 24 | 20 SS | R-7 |
| Hexachlorobutadiene | 50.8 | 10 | 3.5 | ug/l | 100 | | 51 | 40-120 | 32 | 25 U- | R-2 |
| Hexachlorocyclopentadiene | 71.2 | 20 | 5.0 | ug/l | 100 | | 71 | 20-120 | 70 | 30 X | R-7 |
| Hexachloroethane | 38.6 | 10 | 3.0 | ug/l | 100 | | 39 | 35-120 | 32 | 25 K- | R-2 |
| Indeno(1,2,3-cd)pyrene | 113 | 20 | 3.0 | ug/l | 100 | | 113 | 45-135 | 17 | 25 JJ | |
| Isophorone | 72.0 | 10 | 2.0 | ug/l | 100 | | 72 | 50-120 | 32 | 20 MM | R-7 |
| 2-Methylnaphthalene | 79.6 | 10 | 2.0 | ug/l | 100 | | 80 | 50-120 | 31 | 20 W | R-7 |
| 2-Methylphenol | 82.8 | 10 | 2.0 | ug/l | 100 | | 83 | 50-120 | 33 | 20 G | R-7 |
| 4-Methylphenol | 85.5 | 10 | 2.0 | ug/l | 100 | | 86 | 45-120 | 30 | 20 I | R-7 |
| Naphthalene | 74.9 | 10 | 2.5 | ug/l | 100 | | 75 | 50-120 | 29 | 20 S | R-7 |
| 2-Nitroaniline | 92.3 | 20 | 2.0 | ug/l | 100 | | 92 | 60-120 | 32 | 20 BB | R-7 |
| 3-Nitroaniline | 112 | 20 | 2.0 | ug/l | 100 | | 112 | 55-120 | 30 | 25 FF | R-7 |
| 4-Nitroaniline | 113 | 20 | 2.5 | ug/l | 100 | | 113 | 50-125 | 27 | 20 OO | R-7 |
| Nitrobenzene | 73.2 | 20 | 2.5 | ug/l | 100 | | 73 | 50-120 | 34 | 25 L | R-7 |
| 2-Nitrophenol | 85.2 | 10 | 3.5 | ug/l | 100 | | 85 | 45-120 | 37 | 25 N | R-7 |
| 4-Nitrophenol | 90.2 | 20 | 5.5 | ug/l | 100 | | 90 | 40-120 | 30 | 20 X | |

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Nicholas Marz
Project Manager

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TAIT Environmental/Boeing
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Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | |
| LCS Dup Analyzed: 03/19/2007 (7C16066-BSD1) | | | | | | | | | | |
| N-Nitrosodiphenylamine | 81.3 | 10 | 2.0 | ug/l | 100 | | 81 55-120 | 24 | 20 | QQ R-7 |
| N-Nitroso-di-n-propylamine | 74.7 | 10 | 2.5 | ug/l | 100 | | 75 45-120 | 32 | 20 | J R-7 |
| Pentachlorophenol | 106 | 20 | 3.5 | ug/l | 100 | | 106 45-125 | 24 | 25 | |
| Phenanthrene | 87.3 | 10 | 2.0 | ug/l | 100 | | 87 60-120 | 22 | 20 | UU R-7 |
| Phenol | 78.3 | 10 | 2.0 | ug/l | 100 | | 78 45-120 | 29 | 25 | A R-7 |
| Pyrene | 83.6 | 10 | 2.0 | ug/l | 100 | | 84 50-125 | 21 | 25 | |
| 1,2,4-Trichlorobenzene | 58.0 | 10 | 2.5 | ug/l | 100 | | 58 45-120 | 35 | 20 | R- R-2 |
| 2,4,5-Trichlorophenol | 88.2 | 20 | 3.0 | ug/l | 100 | | 88 50-120 | 35 | 30 | Z R-7 |
| 2,4,6-Trichlorophenol | 84.6 | 20 | 3.0 | ug/l | 100 | | 85 50-120 | 29 | 30 | |
| N-Nitrosodimethylamine | 69.6 | 20 | 2.5 | ug/l | 100 | | 70 40-120 | 30 | 20 | ooo R-7 |
| 1,2-Diphenylhydrazine/Azobenzene | 84.3 | 20 | 2.0 | ug/l | 100 | | 84 55-120 | 27 | 25 | R-7 |
| Surrogate: 2-Fluorophenol | 14.9 | | | ug/l | 20.0 | | 74 30-120 | | | |
| Surrogate: Phenol-d6 | 15.9 | | | ug/l | 20.0 | | 80 35-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 19.0 | | | ug/l | 20.0 | | 95 40-120 | | | |
| Surrogate: Nitrobenzene-d5 | 7.64 | | | ug/l | 10.0 | | 76 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 8.82 | | | ug/l | 10.0 | | 88 45-120 | | | |
| Surrogate: Terphenyl-d14 | 8.86 | | | ug/l | 10.0 | | 89 45-120 | | | |

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Nicholas Marz
Project Manager

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IQC1776 <Page 35 of 37>

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s)(C_s)/(A_u)(C_u)$$
$$\text{average RRF} = \text{sum of the RRFs}/\text{number of standards}$$
$$\%RSD = 100 * (S/X)$$

A_s = Area of compound,
 C_s = Concentration of compound,
 S = Standard deviation of the RRFs,
 A_u = Area of associated internal standard
 C_u = Concentration of internal standard
 X = Mean of the RRFs

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | | Recalculated | | Reported | | Recalculated | | Reported | | Recalculated | |
|---|-------------|------------------|--|------------------|------------------|------------------|-----------------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
| | | | | RRF (std) | RRF (std) | RRF (std) | Average RRF (Initial) | Average RRF (Initial) | %RSD | Average RRF (Initial) | %RSD | Average RRF (Initial) | %RSD | Average RRF (Initial) | %RSD |
| 1 | KAL-8 | 3/3/07 | Phenol (1st internal standard) | 2.11 | 2.11 | 2.11 | 2.125 | 2.125 | 4.01 | 2.125 | 4.01 | 2.125 | 4.01 | 2.125 | 4.01 |
| | | | Naphthalene (2nd internal standard) | 1.036 | 1.036 | 1.036 | 1.030 | 1.030 | 5.90 | 1.030 | 5.90 | 1.030 | 5.90 | 1.030 | 5.90 |
| | | | Fluorene (3rd internal standard) | 1.321 | 1.321 | 1.321 | 1.268 | 1.268 | 9.44 | 1.268 | 9.44 | 1.268 | 9.44 | 1.268 | 9.44 |
| | | | Pentachlorophenol (4th internal standard) | 1.180 | 1.093 | 1.093 | 1.059 | 1.059 | 7.16 | 1.059 | 7.16 | 1.059 | 7.16 | 1.059 | 7.16 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | 1.396 | 1.396 | 1.396 | 1.308 | 1.308 | 3.67 | 1.308 | 3.67 | 1.308 | 3.67 | 1.308 | 3.67 |
| | | | Benzo(a)pyrene (6th internal standard) | 1.205 | 1.205 | 1.205 | 1.192 | 1.192 | 8.89 | 1.192 | 8.89 | 1.192 | 8.89 | 1.192 | 8.89 |
| 2 | | | Phenol (1st internal standard) | | | | | | | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | | | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | | | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 16591B2
SDG #: recovered

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: ave. RRF = initial calibration average RRF
RRF = $(A_x)(C_b) / (A_b)(C_x)$ RRF = continuing calibration RRF
 A_x = Area of compound, A_b = Area of associated internal standard
 C_x = Concentration of compound, C_b = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Average RRF (Initial) | Reported | | Recalculated | |
|---|-------------|------------------|--|-----------------------|----------|-----|--------------|-----|
| | | | | | RRF (CC) | %D | RRF (CC) | %D |
| 1 | cen | 3/20/07 | Phenol (1st internal standard) | 2.125 | 2.072 | 2.5 | 2.072 | 2.5 |
| | | | Naphthalene (2nd internal standard) | 1.030 | 1.092 | 6.0 | 1.092 | 6.0 |
| | | | Fluorene (3rd internal standard) | 1.268 | 1.323 | 4.3 | 1.323 | 4.3 |
| | | | Pentachlorophenol (4th internal standard) | 1.059 | 1.117 | 5.5 | 1.117 | 5.5 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | 1.308 | 1.392 | 6.4 | 1.392 | 6.4 |
| | | | Benzo(a)pyrene (6th internal standard) | 1.192 | 1.192 | 0.0 | 1.192 | 0.0 |
| 2 | | | Phenol (1st internal standard) | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 1659132

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

Page: 1 of 1

Reviewer: *[Signature]*2nd reviewer: *[Signature]*

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sample ID: #1

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|------------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Nitrobenzene-d5 | 5 | 3.95 | 79 | 79 | 0 |
| 2-Fluorobiphenyl | ↓ | 3.37 | 67 | 67 | ↓ |
| Terphenyl-d14 | ↓ | 3.56 | 71 | 71 | ↓ |
| Phenol-d5 | 10 | 7.29 | 73 | 73 | ↓ |
| 2-Fluorophenol | ↓ | 6.49 | 65 | 65 | ↓ |
| 2,4,6-Tribromophenol | ↓ | 8.30 | 83 | 83 | ↓ |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|------------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|------------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

**Boeing Realty Corp., Bldg C-1 Long Beach
Data Validation Reports
LDC# 16591**

Hexavalent Chromium

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-1 Long Beach
Collection Date: March 8, 2007
LDC Report Date: April 26, 2007
Matrix: Water
Parameters: Hexavalent chromium
Validation Level: Tier 1, 2, & 3
Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC0980

Sample Identification

MW3009_WG030807_0001
MW3012_WG030807_0001*
MW3012_WG030807_0002**

*Indicates sample underwent Tier 2 review
**Indicates sample underwent Tier 3 review
All other samples underwent Tier 1 review

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 7196A for Hexavalent chromium.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Samples indicated by a double asterisk on the front cover underwent a Tier 3 review. A Tier 2 or Tier 1 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 2 or Tier 1 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

Initial calibration data were not reviewed for Tier I.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

Calibration verification data were not reviewed for Tier I.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 or Tier 1 criteria.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration (ug/L) | | RPD |
|---------------------|-----------------------|------------------------|-----|
| | MW3012_WG030807_0001* | MW3012_WG030807_0002** | |
| Hexavalent chromium | 1.3 | 0.98 | 28 |

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-1 Long Beach
Hexavalent chromium - Data Qualification Summary - SDG IQC0980

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-1 Long Beach
Hexavalent chromium - Laboratory Blank Data Qualification Summary - SDG IQC0980

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701-05
Report Number: IQC0980

Sampled: 03/08/07
Received: 03/08/07

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC0980-01 (TB-TAHT030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | ND | 1 | 03/08/07 | 03/08/07 | |
| Sample ID: IQC0980-02 (MW3009_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | ND | 1 | 03/08/07 | 03/08/07 | |
| Sample ID: IQC0980-03 (MW3016_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 11 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-04 (MW3015_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 49 | 1 | 03/08/07 | 03/08/07 | |
| Sample ID: IQC0980-05 (MW3014_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 13 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-06 (MW3013_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 3.4 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-07 (MW3012_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 1.3 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-08 (MW3012_WG030807_0002 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 0.98 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-09 (MW3011_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 4.7 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-10 (MW3010_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 3.2 | 120 | 140 | 5 | 03/08/07 | 03/08/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

161/2507

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IQC0980 <Page 2 of 7>

LDC #: 16591A6
 SDG #: IQC0980
 Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET Tier 1/2/3

Date: 4/21/07
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Hexavalent Chromium (EPA SW846 Method 7196A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|--|
| I. | Technical holding times | A | Sampling dates: 3/8/07 |
| IIa. | Initial calibration | A | Not reviewed for Tier I validation. |
| IIb. | Calibration verification | A | Not reviewed for Tier I validation. |
| III. | Blanks | A | |
| IVa. | Matrix Spike/(Matrix Spike) Duplicates | A | MS/MSD IQC0980-01 |
| IVb. | Laboratory control samples | A | LCs |
| V. | Sample result verification | A | Not reviewed for Tier I or Tier II validation. |
| VI. | Overall assessment of data | A | |
| VII. | Field duplicates | SW | (2,3) |
| VIII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: * Indicates sample underwent Tier I validation, ** Indicates sample underwent Tier III validation

| | | | | | | | |
|----|------------------------|----|--|----|--|----|--|
| 1 | MW3009_WG030807_0001\ | 11 | | 21 | | 31 | |
| 2 | MW3012_WG030807_0001* | 12 | | 22 | | 32 | |
| 3 | MW3012_WG030807_0002** | 13 | | 23 | | 33 | |
| 4 | MB | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 1651A6
SDG #: See com

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: dy
2nd Reviewer: JK

Method: Inorganics (EPA Method 7196A)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-----|----|----|-------------------|
| I. Sample Holding Time | | | | |
| All technical holding times were met. | / | | | |
| Cooler temperature criteria was met. | / | | | |
| II. Calibration | | | | |
| Were all instruments calibrated daily, each set-up time? | / | | | |
| Were the proper number of standards used? | / | | | |
| Were all initial calibration correlation coefficients > 0.995? | / | | | |
| Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? | / | | | |
| Were titrant checks performed as required? (Level IV only) | | | / | |
| Were balance checks performed as required? (Level IV only) | | | / | |
| III. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | / | | | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | | / | | |
| IV. Matrix spike/Matrix spike duplicates and Duplicates | | | | |
| Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water. | / | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. | / | | | |
| Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL. | / | | | |
| V. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |
| Was an LCS analyzed per extraction batch? | / | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits? | / | | | |
| VI. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | | | / | |
| Were the performance evaluation (PE) samples within the acceptance limits? | | | / | |

LDC #: 16591 kb
 SDG #: see con

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
 Reviewer: my
 2nd Reviewer: R

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-----|----|----|-------------------|
| VI. Sample Result Verification | | | | |
| Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | ✓ | | | |
| Were detection limits < RL? | ✓ | | | |
| VII. Overall Assessment of Data | | | | |
| Overall assessment of data was found to be acceptable. | ✓ | | | |
| IX. Field Duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | ✓ | | | |
| Target analytes were detected in the field duplicates. | ✓ | | | |
| X. Field Blanks | | | | |
| Field blanks were identified in this SDG. | | ✓ | | |
| Target analytes were detected in the field blanks. | | | ✓ | |

LDC#: 16591A6
SDG#: IQC0980

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Inorganics, Method 7196A

☒ Y N NA
☒ Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

| Analyte | Concentration (ug/L) | | RPD | |
|---------|----------------------|------|-----|--|
| | 2 | 3 | | |
| Cr (VI) | 1.3 | 0.98 | 28 | |

V:\FIELD DUPLICATES\FD_inorganic\16591A6.wpd

LDC #: 1651A6
 SDG #: See cover

VALIDATION FINDINGS WORKSHEET
 Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
 Reviewer: WJ
 2nd Reviewer: AL

METHOD: Inorganics, Method 7196A

The correlation coefficient (r) for the calibration of Cu⁶⁺ was recalculated. Calibration date: 3/8/07

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = $\frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
 True = concentration of each analyte in the ICV or CCV source

| Type of Analysis | Analyte | | \log_{10} (units) | \log_{10} (units) | Recalculated r or %R | Reported r or %R | Acceptable (Y/N) |
|---|------------------|------------|---------------------|---------------------|-------------------------|---------------------|---------------------|
| Initial calibration Calibration verification | Cu ⁶⁺ | Blank | 0 | 0 | r = 0.99998 Y | NR | Y |
| | | Standard 1 | 0.01 | 0.007 | | | |
| | | Standard 2 | 0.025 | 0.023 | | | |
| | | Standard 3 | 0.1 | 0.083 | | | |
| | | Standard 4 | 0.5 | 0.414 | | | |
| | | Standard 5 | | | | | |
| | | Standard 6 | | | | | |
| Calibration verification ICV | Cu ⁶⁺ | 0.1 | 0.101 | | 101 | NR | Y |
| | | 0.3 | 0.310 | | 103 | NR | Y |
| | | | | | | | |
| Calibration verification | | | | | | | |

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCULC.8

LDC #: 16091A6
SDG #: See below

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: mm
2nd Reviewer: lc

METHOD: Inorganics, Method 9196A

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} - \text{True}}{\text{True}} \times 100$$
 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result). True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{S - D}{(S + D)/2} \times 100$$
 Where, S = Original sample concentration
D = Duplicate sample concentration

| Sample ID | Type of Analysis | Element | Found / s (units) | True / D (units) | Recalculated | | Reported | | Acceptable (Y/N) |
|------------------|---------------------------|------------------|----------------------|----------------------|--------------|----------|----------|--|---------------------|
| | | | | | %R / RPD | %R / RPD | | | |
| LC5 | Laboratory control sample | Cu ⁶⁺ | 1.01 | 1.00 1.00 | 1.01 | 1.01 | 1.01 | | Y |
| SPK-6980 1.01 | Matrix spike sample | ✓ | 305 (SSR-SR) | 300 | 1.02 | 1.02 | 1.02 | | Y |
| ✓ | Duplicate sample | | 304 | 300. | 0 | 0 | 0 | | Y |

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #:

SDG #:

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page:

Reviewer

2nd reviewer

METHOD: Inorganics, Method

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Have results been reported and calculated correctly?

| | | |
|---|---|-----|
| Y | N | N/A |
|---|---|-----|

Are results within the calibrated range of the instruments?

| | | |
|---|---|-----|
| Y | N | N/A |
|---|---|-----|

Are all detection limits below the CRQL?

Compound (analyte) results for 3 reported with a positive detect were recalculated and verified using the following equation:

Concentration =

Recalculation:

$$C_{VH_2} = \frac{h_{H_2} - 0.000292}{0.827}$$

$$C_{VH_2} = \frac{0.501 - 0.000292}{0.829} = 0.00086 \text{ mg/L}$$

[illegible]

Note:

RECALC.6

**Boeing Realty Corp., Bldg C-1 Long Beach
Data Validation Reports
LDC# 16591**

TPH as Extractables

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-1 Long Beach
Collection Date: March 15, 2007
LDC Report Date: April 30, 2007
Matrix: Water
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Tier 3
Laboratory: TestAmerica
Sample Delivery Group (SDG): IQC1776
Sample Identification
MW3017_WG031507_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

All target compound identifications were within validation criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

VII. System Performance

The system performance was acceptable.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been summarized.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

**Boeing Realty Corp., Bldg C-1 Long Beach
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG
IQC1776**

No Sample Data Qualified in this SDG

**Boeing Realty Corp., Bldg C-1 Long Beach
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification
Summary - SDG IQC1776**

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

HYDROCARBON DISTRIBUTION (EPA 3510C/8015 Mod.)

| Analyte | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | % of Total | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|--------------|--------------------|------------------|--------------------|---------------|-------------------|------------------|--------------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| EFH (C6 - C44) | 7C22062 | 0.094 | 0.47 | 4.9 | 1 | 100 | 3/22/2007 | 3/22/2007 | |
| EFH (C6 - C7) | 7C22062 | 0.094 | 0.094 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C8 - C9) | 7C22062 | 0.094 | 0.094 | 0.15 | 1 | 3 | 3/22/2007 | 3/22/2007 | |
| EFH (C10 - C11) | 7C22062 | 0.094 | 0.094 | 0.79 | 1 | 16 | 3/22/2007 | 3/22/2007 | |
| EFH (C12 - C13) | 7C22062 | 0.094 | 0.094 | 1.1 | 1 | 22 | 3/22/2007 | 3/22/2007 | |
| EFH (C14 - C15) | 7C22062 | 0.094 | 0.094 | 1.4 | 1 | 29 | 3/22/2007 | 3/22/2007 | |
| EFH (C16 - C17) | 7C22062 | 0.094 | 0.094 | 0.93 | 1 | 19 | 3/22/2007 | 3/22/2007 | |
| EFH (C18 - C19) | 7C22062 | 0.094 | 0.094 | 0.29 | 1 | 6 | 3/22/2007 | 3/22/2007 | |
| EFH (C20 - C23) | 7C22062 | 0.042 | 0.042 | 0.084 | 1 | 2 | 3/22/2007 | 3/22/2007 | |
| EFH (C24 - C27) | 7C22062 | 0.042 | 0.042 | 0.045 | 1 | 1 | 3/22/2007 | 3/22/2007 | |
| EFH (C28 - C31) | 7C22062 | 0.042 | 0.042 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C32 - C35) | 7C22062 | 0.094 | 0.094 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C36 - C39) | 7C22062 | 0.042 | 0.042 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C40 - C44) | 7C22062 | 0.042 | 0.042 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| Surrogate: n-Octacosane (40-125%) | | | | 97 % | | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

Handwritten signature

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IQC1776 <Page 18 of 37>

LDC #: 16591B8
SDG #: IQC1776
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET EPA Region 1 - Tier 3

Date: 4/25/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/15/07 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | A | |
| IVb. | Matrix spike/Matrix spike duplicates | N | Chemt specified |
| IVc. | Laboratory control samples | A | Les 10 |
| V. | Target compound identification | A | |
| VI. | Compound Quantitation and CRQLs | A | |
| VII. | System Performance | A | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | N | |
| X. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

water

| | | | | | | | |
|----|----------------------|----|-------------|----|--|----|--|
| 1 | MW3017-WG031507_0001 | 11 | TC22062-B41 | 21 | | 31 | |
| 2 | | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes:

LDC #: 1659138
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: PS
2nd Reviewer: AL

Method: GC HPLC

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| II. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Did the initial calibration meet the curve fit acceptance criteria? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the RT windows properly established? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| III. Continuing calibration | | | | |
| What type of continuing calibration calculation was performed? ____ %D or %R | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a continuing calibration analyzed daily? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) < 15%.0 or percent recoveries 85-115%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all the retention times within the acceptance windows? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IV. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a method blank analyzed for each matrix and concentration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| V. Surrogate spikes | | | | |
| Were all surrogate %R within the QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VI. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was an LCS analyzed per extraction batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

LDC #: 16591B8
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JS
2nd Reviewer: A

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X. Target compound identification | | | | |
| Were the retention times of reported detects within the RT windows? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Compound quantitation/CRQLs | | | | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. System performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIV. Field duplicates | | | | |
| Were field duplicate pairs identified in this SDG? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were target compounds detected in the field duplicates? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XV. Field blanks | | | | |
| Were field blanks identified in this SDG? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were target compounds detected in the field blanks? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

LDC #: 1659188
SDG #: per covered

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: R
2nd Reviewer: R

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

| # | Standard ID | Calibration Date | Compound | Reported | | Recalculated | | Reported | | Recalculated | |
|---|-------------|------------------|----------|--------------|--------------|--------------|--------------|----------------------|-------|----------------------|-------|
| | | | | CF (1SD std) | CF (1SD std) | CF (1SD std) | CF (1SD std) | Average CF (Initial) | %RSD | Average CF (Initial) | %RSD |
| 1 | 142 | 3/3/07 | EFH | 2873.4 | 2443.4 | 2443.4 | 2443.4 | 2787.17 | 11.14 | 2787.17 | 11.14 |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 16591B8
SDG #: see comment

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: 7
2nd Reviewer: ed

METHOD: GC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
 CF = A/C
 Where: ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

| # | Standard ID | Calibration Date | Compound | Average CF(Ical)/ CCV Conc. | Reported | | Recalculated | |
|---|-------------|------------------|----------|--------------------------------|-----------------|----|-----------------|----|
| | | | | | CF/Conc. CCV | %R | CF/Conc. CCV | %R |
| 1 | 06N | 3/22/07 6:55 | EFH | 750 | 746.3494 | 99 | 99 | |
| | | | | | | | | |
| | | | | | | | | |
| 2 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 4 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd reviewer: [Signature]

LDC #: 1659188
SDG #: per cover
METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

Where: SF = Surrogate Found
SS = Surrogate Spiked

% Recovery: SF/SS * 100

Sample ID: # 1

| Surrogate | Column/Detector | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|--------------|-----------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| n-octacosane | not specified | 100 | 97.4363 | 97 | 97 | 0 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sample ID:

| Surrogate | Column/Detector | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------|-----------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sample ID:

| Surrogate | Column/Detector | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------|-----------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

LDC #:

16591038

VALIDATION FINDINGS WORKSHEET

Page: 6 of 7

SDG #:

per case

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: 7

2nd Reviewer: 9

METHOD:

GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

 $\% \text{Recovery} = 100 \cdot (\text{SSC} - \text{SC}) / \text{SA}$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

 $\text{RPD} = ((\text{SSCLCS} - \text{SSCLCSD}) \cdot 2) / (\text{SSCLCS} + \text{SSCLCSD}) \cdot 100$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples:

7022062-135

| Compound | Spike Added (mg/L) | | Sample Conc. (mg/L) | Spike Sample Concentration (mg/L) | | LCS Percent Recovery | | LCSD Percent Recovery | | LCS/LCSD RPD | |
|------------------------------|-----------------------|------|------------------------|--------------------------------------|-------|-------------------------|---------|--------------------------|---------|-----------------|---------|
| | LCS | LCSD | | LCS | LCSD | Reported | Recalc. | Reported | Recalc. | Reported | Recalc. |
| Gasoline (8015) | | | | | | | | | | | |
| Diesel (8015) | | | | | | | | | | | |
| Benzene (8021B) | | | | | | | | | | | |
| Methane (RSK-175) | | | | | | | | | | | |
| 2,4-D (8151) | | | | | | | | | | | |
| Dinoseb (8151) | | | | | | | | | | | |
| Naphthalene (8310) | | | | | | | | | | | |
| Anthracene (8310) | | | | | | | | | | | |
| HMX (8330) | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene (8330) | | | | | | | | | | | |
| BFA | 1.0 | 1.0 | 0 | 0.931 | 0.806 | 93 | 93 | 81 | 81 | 14 | 14 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

 ~~$\frac{Y}{Y} \frac{N}{N} \frac{N/A}{N/A}$~~

4.9 gm/L

[illegible]

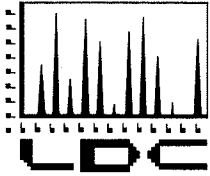
Comments:

LDC #16739 (Tait Environmental Management, Inc. / Boeing Realty Corp., Bldg C-1 Long Beach)

[illegible]

Shaded cells indicate Tier III validation (all other cells are Tier II validation). Sample counts do not include MS, MSD, or DUP's.

16739ST.wpd



LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Tait Environmental Management, Inc.
701 N. Park Center Drive
Santa Ana, CA 92705
ATTN: Ms. Clara Boeru

May 11, 2007

SUBJECT: Boeing Realty Corp. Bldg C-6 Torrance, Data Validation

Dear Ms. Boeru,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on May 3, 2007. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 16739:

SDG #

Fraction

IQC1612, IQC2470,
IQC2895

Volatiles, Maganese, Wet Chemistry, Dissolved
Gases

The data validation was performed under Tier 1, Tier 2 and Tier 3 guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Project Manager/Senior Chemist

LDC #16739 (Tait Environmental Management, Inc. / Boeing Realty Corp., Bldg C-6 Torrance)

| LDC | SDG# | DATE REC'D | (3) DATE DUE | VOA (8260B) | | Mn (6010B) | | Diss. Gases (175) | | Alk. (310.1) | | NH ₃ (350.3) | | Cl,SO ₄ O-PO ₄ (300.0) | | NO ₃ -N NO ₂ -N (300.0) | | S= (376.2) | | TOC (415.1) | | | | | | | | | | | |
|--------------------|---------|------------|-----------------|-------------|---|------------|---|-------------------|---|--------------|---|-------------------------|---|--|---|---|---|------------|---|-------------|---|---|--------|---|---|---|---|---|---|---|---|
| | | | | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S |
| Matrix: Water/Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | IQC1612 | 05/03/07 | 05/24/07 | 6 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | - | - | 2 | 0 | | | | | | | | |
| B | IQC2470 | 05/03/07 | 05/24/07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | Tier I | | | | | | | | |
| B | IQC2470 | 05/03/07 | 05/24/07 | 4 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | | | | | | | | |
| C | IQC2895 | 05/03/07 | 05/24/07 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | | | | | | | | |
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Shaded cells indicate Tier III validation (all other cells are Tier II validation). Sample counts do not include MS, MSD, or DUP's.

Boeing Realty Corp., Bldg C-6 Torrance
Data Validation Reports
LDC# 16739

Volatiles

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance
Collection Date: March 14, 2007
LDC Report Date: May 10, 2007
Matrix: Water
Parameters: Volatiles
Validation Level: Tier 1
Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC1612

Sample Identification

MWB013_WG031407_0001
MWG004_WG031407_0001
TMW_14_WG031407_0001
TMW_11_WG031407_0001
WCC_5S_WG031407_0001
MWC021_WG031407_0001
MWB013_WG031407_0001MS
MWB013_WG031407_0001MSD

Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance data were not reviewed for Tier 1.

III. Initial Calibration

Initial calibration data were not reviewed for Tier 1.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Tier 1.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

Internal standards data were not reviewed for Tier 1.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Volatiles - Data Qualification Summary - SDG IQC1612

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Volatiles - Laboratory Blank Data Qualification Summary - SDG IQC1612

No Sample Data Qualified in this SDG

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1612-05 (MWB013_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C16022 | 4.5 | 10 | ND | 1 | 03/16/07 | 03/16/07 | |
| Benzene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromobenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromochloromethane | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromodichloromethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | 0.37 | 1 | 03/16/07 | 03/16/07 | J |
| Bromoform | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromomethane | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C16022 | 3.8 | 5.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| n-Butylbenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| sec-Butylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| tert-Butylbenzene | EPA 8260B | 7C16022 | 0.22 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Carbon Disulfide | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Carbon tetrachloride | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chlorobenzene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chloroethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chloroform | EPA 8260B | 7C16022 | 0.33 | 1.0 | 0.54 | 1 | 03/16/07 | 03/16/07 | J |
| Chloromethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C16022 | 0.29 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C16022 | 0.97 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Dibromochloromethane | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C16022 | 0.79 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C16022 | 0.34 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.22 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.32 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| Ethylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C16022 | 0.38 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2-Hexanone | EPA 8260B | 7C16022 | 2.6 | 6.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Iodomethane | EPA 8260B | 7C16022 | 1.0 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Isopropylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

1251007

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BOE-C6-0054487



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-05 (MWB013_WG031407_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Methylene chloride | EPA 8260B | 7C16022 | 0.95 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C16022 | 3.5 | 5.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| n-Propylbenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Styrene | EPA 8260B | 7C16022 | 0.16 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.24 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Tetrachloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C16022 | 3.5 | 10 | ND | 1 | 03/16/07 | 03/16/07 | |
| Toluene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Trichloroethene | EPA 8260B | 7C16022 | 0.26 | 1.0 | 5.3 | 1 | 03/16/07 | 03/16/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C16022 | 0.34 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C16022 | 0.23 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C16022 | 0.26 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Vinyl acetate | EPA 8260B | 7C16022 | 1.7 | 6.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Vinyl chloride | EPA 8260B | 7C16022 | 0.30 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| Xylenes, Total | EPA 8260B | 7C16022 | 0.90 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 108 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 109 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 103 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

1651007

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BOE-C6-0054488



ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-06 (MWG004_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C16022 | 4.5 | 10 | ND | 1 | 03/16/07 | 03/16/07 | |
| Benzene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromobenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromochloromethane | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromodichloromethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromoform | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Bromomethane | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C16022 | 3.8 | 5.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| n-Butylbenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| sec-Butylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| tert-Butylbenzene | EPA 8260B | 7C16022 | 0.22 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Carbon Disulfide | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Carbon tetrachloride | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chlorobenzene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chloroethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chloroform | EPA 8260B | 7C16022 | 0.33 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Chloromethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C16022 | 0.29 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C16022 | 0.97 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Dibromochloromethane | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C16022 | 0.79 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | 0.34 | 1 | 03/16/07 | 03/16/07 | J |
| trans-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C16022 | 0.34 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.22 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.32 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| Ethylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C16022 | 0.38 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 2-Hexanone | EPA 8260B | 7C16022 | 2.6 | 6.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Iodomethane | EPA 8260B | 7C16022 | 1.0 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Isopropylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

R51007

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BOE-C6-0054489

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-06 (MWG004_WG031407_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Methylene chloride | EPA 8260B | 7C16022 | 0.95 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C16022 | 3.5 | 5.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| n-Propylbenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Styrene | EPA 8260B | 7C16022 | 0.16 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.24 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Tetrachloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C16022 | 3.5 | 10 | ND | 1 | 03/16/07 | 03/16/07 | |
| Toluene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Trichloroethene | EPA 8260B | 7C16022 | 0.26 | 1.0 | 17 | 1 | 03/16/07 | 03/16/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C16022 | 0.34 | 2.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C16022 | 0.23 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C16022 | 0.26 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Vinyl acetate | EPA 8260B | 7C16022 | 1.7 | 6.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Vinyl chloride | EPA 8260B | 7C16022 | 0.30 | 0.50 | ND | 1 | 03/16/07 | 03/16/07 | |
| Xylenes, Total | EPA 8260B | 7C16022 | 0.90 | 1.0 | ND | 1 | 03/16/07 | 03/16/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 107 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 114 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 104 % | | | | |

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Nicholas Marz
Project Manager

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BOE-C6-0054490



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1612-07 (TMW_14_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C16022 | 4.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Benzene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromobenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromochloromethane | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromodichloromethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromoform | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromomethane | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C16022 | 3.8 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Butylbenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| sec-Butylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| tert-Butylbenzene | EPA 8260B | 7C16022 | 0.22 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon Disulfide | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon tetrachloride | EPA 8260B | 7C16022 | 0.28 | 0.50 | 1.4 | 1 | 03/16/07 | 03/17/07 | |
| Chlorobenzene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroform | EPA 8260B | 7C16022 | 0.33 | 1.0 | 2.7 | 1 | 03/16/07 | 03/17/07 | |
| Chloromethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C16022 | 0.29 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C16022 | 0.97 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dibromochloromethane | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C16022 | 0.79 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C16022 | 0.34 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.22 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.32 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Ethylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C16022 | 0.38 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Hexanone | EPA 8260B | 7C16022 | 2.6 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Iodomethane | EPA 8260B | 7C16022 | 1.0 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Isopropylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |

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Nicholas Marz
Project Manager

R051007

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BOE-C6-0054491



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-07 (TMW_14_WG031407_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methylene chloride | EPA 8260B | 7C16022 | 0.95 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C16022 | 3.5 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Propylbenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Styrene | EPA 8260B | 7C16022 | 0.16 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.24 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Tetrachloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | 0.89 | 1 | 03/16/07 | 03/17/07 | J |
| Tetrahydrofuran (THF) | EPA 8260B | 7C16022 | 3.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Toluene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Trichloroethene | EPA 8260B | 7C16022 | 0.26 | 1.0 | 6.7 | 1 | 03/16/07 | 03/17/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C16022 | 0.34 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C16022 | 0.23 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C16022 | 0.26 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl acetate | EPA 8260B | 7C16022 | 1.7 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl chloride | EPA 8260B | 7C16022 | 0.30 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Xylenes, Total | EPA 8260B | 7C16022 | 0.90 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 108 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 118 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 104 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

1051087

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BOE-C6-0054492



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1612-08 (TMW_11_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C16022 | 4.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Benzene | EPA 8260B | 7C16022 | 0.28 | 1.0 | 0.28 | 1 | 03/16/07 | 03/17/07 | J |
| Bromobenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromochloromethane | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromodichloromethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromoform | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromomethane | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C16022 | 3.8 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Butylbenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| sec-Butylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| tert-Butylbenzene | EPA 8260B | 7C16022 | 0.22 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon Disulfide | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon tetrachloride | EPA 8260B | 7C16022 | 0.28 | 0.50 | 2.3 | 1 | 03/16/07 | 03/17/07 | |
| Chlorobenzene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroform | EPA 8260B | 7C16022 | 0.33 | 1.0 | 170 | 1 | 03/16/07 | 03/17/07 | |
| Chloromethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C16022 | 0.29 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C16022 | 0.97 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dibromochloromethane | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C16022 | 0.79 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C16022 | 0.34 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.22 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.32 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Ethylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C16022 | 0.38 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Hexanone | EPA 8260B | 7C16022 | 2.6 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Iodomethane | EPA 8260B | 7C16022 | 1.0 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Isopropylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

8/25/07

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BOE-C6-0054493



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-08 (TMW_11_WG031407_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methylene chloride | EPA 8260B | 7C16022 | 0.95 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C16022 | 3.5 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Propylbenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Styrene | EPA 8260B | 7C16022 | 0.16 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.24 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Tetrachloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | 3.7 | 1 | 03/16/07 | 03/17/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C16022 | 3.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Toluene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Trichloroethene | EPA 8260B | 7C16022 | 0.26 | 1.0 | 8.0 | 1 | 03/16/07 | 03/17/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C16022 | 0.34 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C16022 | 0.23 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C16022 | 0.26 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl acetate | EPA 8260B | 7C16022 | 1.7 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl chloride | EPA 8260B | 7C16022 | 0.30 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Xylenes, Total | EPA 8260B | 7C16022 | 0.90 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 109 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 111 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 102 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

Kos-1007

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BOE-C6-0054494



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-09 (WCC_5S_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C16022 | 4.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Benzene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromobenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromochloromethane | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromodichloromethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromoform | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromomethane | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C16022 | 3.8 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Butylbenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| sec-Butylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| tert-Butylbenzene | EPA 8260B | 7C16022 | 0.22 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon Disulfide | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon tetrachloride | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chlorobenzene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroform | EPA 8260B | 7C16022 | 0.33 | 1.0 | 0.40 | 1 | 03/16/07 | 03/17/07 | J |
| Chloromethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C16022 | 0.29 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C16022 | 0.97 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dibromochloromethane | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C16022 | 0.79 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | 0.68 | 1 | 03/16/07 | 03/17/07 | J |
| 1,1-Dichloroethene | EPA 8260B | 7C16022 | 0.42 | 1.0 | 6.5 | 1 | 03/16/07 | 03/17/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | 0.54 | 1 | 03/16/07 | 03/17/07 | J |
| trans-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C16022 | 0.34 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.22 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.32 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Ethylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C16022 | 0.38 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Hexanone | EPA 8260B | 7C16022 | 2.6 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Iodomethane | EPA 8260B | 7C16022 | 1.0 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Isopropylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |

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Nicholas Marz
Project Manager

R25-1007

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BOE-C6-0054495



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-09 (WCC_5S_WG031407_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methylene chloride | EPA 8260B | 7C16022 | 0.95 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C16022 | 3.5 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Propylbenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Styrene | EPA 8260B | 7C16022 | 0.16 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.24 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Tetrachloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C16022 | 3.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Toluene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Trichloroethene | EPA 8260B | 7C16022 | 0.26 | 1.0 | 2.9 | 1 | 03/16/07 | 03/17/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C16022 | 0.34 | 2.0 | 1.2 | 1 | 03/16/07 | 03/17/07 | J |
| 1,2,3-Trichloropropane | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C16022 | 0.23 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C16022 | 0.26 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl acetate | EPA 8260B | 7C16022 | 1.7 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl chloride | EPA 8260B | 7C16022 | 0.30 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Xylenes, Total | EPA 8260B | 7C16022 | 0.90 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 109 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 116 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 103 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

6/10/07

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BOE-C6-0054496

TestAmerica

ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1612-10 (MWC021_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C16022 | 4.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Benzene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromobenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromochloromethane | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromodichloromethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromoform | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Bromomethane | EPA 8260B | 7C16022 | 0.42 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C16022 | 3.8 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Butylbenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| sec-Butylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| tert-Butylbenzene | EPA 8260B | 7C16022 | 0.22 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon Disulfide | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Carbon tetrachloride | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chlorobenzene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Chloroform | EPA 8260B | 7C16022 | 0.33 | 1.0 | 0.50 | 1 | 03/16/07 | 03/17/07 | J |
| Chloromethane | EPA 8260B | 7C16022 | 0.40 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C16022 | 0.29 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C16022 | 0.97 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dibromochloromethane | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C16022 | 0.37 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C16022 | 0.79 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C16022 | 0.28 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | 0.52 | 1 | 03/16/07 | 03/17/07 | J |
| 1,1-Dichloroethene | EPA 8260B | 7C16022 | 0.42 | 1.0 | 0.46 | 1 | 03/16/07 | 03/17/07 | J |
| cis-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | 4.1 | 1 | 03/16/07 | 03/17/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C16022 | 0.35 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C16022 | 0.34 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.22 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C16022 | 0.32 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Ethylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C16022 | 0.38 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 2-Hexanone | EPA 8260B | 7C16022 | 2.6 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Iodomethane | EPA 8260B | 7C16022 | 1.0 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Isopropylbenzene | EPA 8260B | 7C16022 | 0.25 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

RSC1007

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BOE-C6-0054497

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1612-10 (MWC021_WG031407_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C16022 | 0.28 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Methylene chloride | EPA 8260B | 7C16022 | 0.95 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C16022 | 3.5 | 5.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| n-Propylbenzene | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Styrene | EPA 8260B | 7C16022 | 0.16 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.27 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C16022 | 0.24 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Tetrachloroethene | EPA 8260B | 7C16022 | 0.32 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C16022 | 3.5 | 10 | ND | 1 | 03/16/07 | 03/17/07 | |
| Toluene | EPA 8260B | 7C16022 | 0.36 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C16022 | 0.48 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C16022 | 0.30 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Trichloroethene | EPA 8260B | 7C16022 | 0.26 | 1.0 | 11 | 1 | 03/16/07 | 03/17/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C16022 | 0.34 | 2.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C16022 | 0.40 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C16022 | 0.23 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C16022 | 0.26 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl acetate | EPA 8260B | 7C16022 | 1.7 | 6.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Vinyl chloride | EPA 8260B | 7C16022 | 0.30 | 0.50 | ND | 1 | 03/16/07 | 03/17/07 | |
| Xylenes, Total | EPA 8260B | 7C16022 | 0.90 | 1.0 | ND | 1 | 03/16/07 | 03/17/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 109 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 115 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 104 % | | | | |

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Nicholas Marz
Project Manager

1007

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IQC1612 <Page 21 of 51>

BOE-C6-0054498

LDC #: 16739A1
SDG #: IQC1612
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

Tier 1

Date: 5/10/07
Page: 1 of 1
Reviewer: P
2nd Reviewer: R

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/14/07 |
| II. | GC/MS Instrument performance check | N | |
| III. | Initial calibration | N | |
| IV. | Continuing calibration | N | |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | A | |
| VIII. | Laboratory control samples | A | |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | N | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

water

| | | | | | | | | |
|----|----|-------------------------|----|----------------|----|--|----|--|
| 5 | 1 | MWB013_WG031407_0001 | 11 | 7C16022 - Blk1 | 21 | | 31 | |
| 6 | 2 | MWG004_WG031407_0001 | 12 | | 22 | | 32 | |
| 7 | 3 | TMW_14_WG031407_0001 | 13 | | 23 | | 33 | |
| 8 | 4 | TMW_11_WG031407_0001 | 14 | | 24 | | 34 | |
| 9 | 5 | WCC_5S_WG031407_0001 | 15 | | 25 | | 35 | |
| 10 | 6 | MWC021_WG031407_0001 | 16 | | 26 | | 36 | |
| | 7 | MWB013_WG031407_0001MS | 17 | | 27 | | 37 | |
| | 8 | MWB013_WG031407_0001MSD | 18 | | 28 | | 38 | |
| | 9 | | 19 | | 29 | | 39 | |
| | 10 | | 20 | | 30 | | 40 | |

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 22, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 2

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC2470

Sample Identification

MWB028_WG032207_0001

MWB027_WG032207_0001

MWB027_WG032207_0002

CMW002_WG032207_0001

MWB028_WG032207_0001MS

MWB028_WG032207_0001MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UU Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

| Date | Compound | RRF (Limits) | Associated Samples | Flag | A or P |
|---------|------------|-----------------------|---|---|--------|
| 2/27/07 | 2-Butanone | 0.044 (≥ 0.05) | MWB028_WG032207_0001 MWB027_WG032207_0001 MWB027_WG032207_0002 MWB028_WG032207_0001MS MWB028_WG032207_0001MSD 7C27024-BLK1 | J (all detects) UJ (all non-detects) | A |
| 3/21/07 | 2-Butanone | 0.047 (≥ 0.05) | CMW002_WG032207_0001 7C29027-BLK1 | J (all detects) UJ (all non-detects) | A |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|---------|---|----------------------------|---|---|--------|
| 3/27/07 | Acetone | 27.1 | MWB028_WG032207_0001 MWB027_WG032207_0002 MWB028_WG032207_0001MS MWB028_WG032207_0001MSD 7C27024-BLK1 | J (all detects) UJ (all non-detects) | A |
| 3/29/07 | Tetrahydrofuran 2-Butanone 4-Methyl-2-pentanone 2-Hexanone | 44 80.9 26.5 70.8 | CMW002_WG032207_0001 7C29027-BLK1 | J (all detects) UJ (all non-detects) | A |
| 3/30/07 | Acetone | 41.3 | CMW002_WG032207_0001 7C30007-BLK1 | J (all detects) UJ (all non-detects) | A |

All of the continuing calibration RRF values were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Analysis Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|---------------|---------------------------------|-------------------------|--|
| 7C27024-BLK1 | 3/27/07 | Tetrahydrofuran Toluene | 8.04 ug/L 0.440 ug/L | MWB028_WG032207_0001 MWB027_WG032207_0001 MWB027_WG032207_0002 |
| 7C29027-BLK1 | 3/29/07 | Tetrahydrofuran | 5.88 ug/L | CMW002_WG032207_0001 |
| 7C30007-BLK1 | 3/30/07 | Methylene chloride | 1.64 ug/L | CMW002_WG032207_0001 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound TIC (RT in minutes) | Reported Concentration | Modified Final Concentration |
|----------------------|---------------------------------|---------------------------|---------------------------------|
| MWB028_WG032207_0001 | Toluene | 0.84 ug/L | 1.0U ug/L |
| MWB027_WG032207_0001 | Toluene | 1.2 ug/L | 1.2U ug/L |
| MWB027_WG032207_0002 | Toluene | 0.91 ug/L | 1.0U ug/L |

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| LCS ID | Compound | %R (Limits) | Associated Samples | Flag | A or P |
|-------------|---|--|--|--|--------|
| 7C27024-BS1 | Acetone | 156 (30-140) | MWB028_WG032207_0001 MWB027_WG032207_0002 7C27024-BLK1 | J (all detects) | P |
| 7C27024-BS1 | 2-Butanone | 150 (40-140) | MWB028_WG032207_0001 MWB027_WG032207_0001 MWB027_WG032207_0002 7C27024-BLK1 | J (all detects) | P |
| 7C29027-BS1 | 2-Butanone 1,2-Dibromo-3-chloropropane 2-Hexanone 4-Methyl-2-pentanone | 268 (40-140) 142 (50-135) 248 (45-140) 170 (45-140) | CMW002_WG032207_0001 7C29027-BLK1 | J (all detects) J (all detects) J (all detects) J (all detects) | P |

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples MWB027_WG032207_0001 and MWB027_WG032207_0002 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/L) | | RPD |
|--------------------------|----------------------|----------------------|-----|
| | MWB027_WG032207_0001 | MWB027_WG032207_0002 | |
| Chloroform | 4.8 | 4.1 | 16 |
| 1,1-Dichloroethene | 170 | 160 | 6 |
| cis-1,2-Dichloroethene | 120 | 110 | 9 |
| trans-1,2-Dichloroethene | 1.1 | 0.72 | 42 |
| Tetrachloroethene | 2.2 | 1.8 | 20 |
| Toluene | 1.2 | 0.91 | 27 |

| Compound | Concentration (ug/L) | | RPD |
|------------------------|----------------------|----------------------|-----|
| | MWB027_WG032207_0001 | MWB027_WG032207_0002 | |
| Trichlorofluoromethane | 22 | 19 | 15 |
| Trichloroethene | 400 | 370 | 8 |
| 1,1-Dichloroethane | 1.0U | 0.3 | 200 |

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Volatiles - Data Qualification Summary - SDG IQC2470

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------|--|---|--|--------|---------------------------------|
| IQC2470 | MWB028_WG032207_0001 MWB027_WG032207_0001 MWB027_WG032207_0002 CMW002_WG032207_0001 | 2-Butanone | J (all detects) UJ (all non-detects) | A | Initial calibration (RRF) |
| IQC2470 | MWB028_WG032207_0001 MWB027_WG032207_0002 CMW002_WG032207_0001 | Acetone | J (all detects) UJ (all non-detects) | A | Continuing calibration (%D) |
| IQC2470 | CMW002_WG032207_0001 | Tetrahydrofuran 2-Butanone 4-Methyl-2-pentanone 2-Hexanone | J (all detects) UJ (all non-detects) | A | Continuing calibration (%D) |
| IQC2470 | MWB028_WG032207_0001 MWB027_WG032207_0001 MWB027_WG032207_0002 | 2-Butanone | J (all detects) | P | Laboratory control samples (%R) |
| IQC2470 | MWB028_WG032207_0001 MWB027_WG032207_0002 | Acetone | J (all detects) | P | Laboratory control samples (%R) |
| IQC2470 | CMW002_WG032207_0001 | 2-Butanone 1,2-Dibromo-3-chloropropane 2-Hexanone 4-Methyl-2-pentanone | J (all detects) J (all detects) J (all detects) J (all detects) | P | Laboratory control samples (%R) |

Boeing Realty Corp., Bldg C-6 Torrance
Volatiles - Laboratory Blank Data Qualification Summary - SDG IQC2470

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|---------|----------------------|---------------------------------|---------------------------------|--------|
| IQC2470 | MWB028_WG032207_0001 | Toluene | 1.0U ug/L | A |
| IQC2470 | MWB027_WG032207_0001 | Toluene | 1.2U ug/L | A |
| IQC2470 | MWB027_WG032207_0002 | Toluene | 1.0U ug/L | A |



ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2470-05 (MWB028_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C27024 | 4.5 | 10 | ND ⁴⁵ | 1 | 03/27/07 | 03/27/07 | L |
| Benzene | EPA 8260B | 7C27024 | 0.28 | 1.0 | 0.73 | 1 | 03/27/07 | 03/27/07 | J |
| Bromobenzene | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Bromochloromethane | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Bromodichloromethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Bromoform | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Bromomethane | EPA 8260B | 7C27024 | 0.42 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C27024 | 3.8 | 5.0 | ND ⁴⁵ | 1 | 03/27/07 | 03/27/07 | L |
| n-Butylbenzene | EPA 8260B | 7C27024 | 0.37 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| sec-Butylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| tert-Butylbenzene | EPA 8260B | 7C27024 | 0.22 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Carbon Disulfide | EPA 8260B | 7C27024 | 0.48 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Carbon tetrachloride | EPA 8260B | 7C27024 | 0.28 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Chlorobenzene | EPA 8260B | 7C27024 | 0.36 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Chloroethane | EPA 8260B | 7C27024 | 0.40 | 2.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Chloroform | EPA 8260B | 7C27024 | 0.33 | 1.0 | 3.0 | 1 | 03/27/07 | 03/27/07 | |
| Chloromethane | EPA 8260B | 7C27024 | 0.40 | 2.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C27024 | 0.29 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C27024 | 0.97 | 2.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Dibromochloromethane | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C27024 | 0.37 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C27024 | 0.35 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C27024 | 0.79 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C27024 | 0.28 | 0.50 | 0.53 | 1 | 03/27/07 | 03/27/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C27024 | 0.27 | 1.0 | 8.8 | 1 | 03/27/07 | 03/27/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C27024 | 0.42 | 1.0 | 280 | 1 | 03/27/07 | 03/27/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C27024 | 0.32 | 1.0 | 17 | 1 | 03/27/07 | 03/27/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C27024 | 0.27 | 1.0 | 6.0 | 1 | 03/27/07 | 03/27/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C27024 | 0.35 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C27024 | 0.34 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C27024 | 0.22 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C27024 | 0.32 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Ethylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C27024 | 0.38 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 2-Hexanone | EPA 8260B | 7C27024 | 2.6 | 6.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Iodomethane | EPA 8260B | 7C27024 | 1.0 | 2.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Isopropylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |

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Nicholas Marz
Project Manager

1251007

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ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
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Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-05 (MWB028_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Methylene chloride | EPA 8260B | 7C27024 | 0.95 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C27024 | 3.5 | 5.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| n-Propylbenzene | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Styrene | EPA 8260B | 7C27024 | 0.16 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C27024 | 0.24 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Tetrachloroethene | EPA 8260B | 7C27024 | 0.32 | 1.0 | 1.9 | 1 | 03/27/07 | 03/27/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C27024 | 3.5 | 10 | ND | 1 | 03/27/07 | 03/27/07 | |
| Toluene | EPA 8260B | 7C27024 | 0.36 | 1.0 | 0.84 | 1.04 | 03/27/07 | 03/27/07 | B, J |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C27024 | 0.48 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C27024 | 0.34 | 2.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C27024 | 0.23 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C27024 | 0.26 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Vinyl acetate | EPA 8260B | 7C27024 | 1.7 | 6.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Vinyl chloride | EPA 8260B | 7C27024 | 0.30 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Xylenes, Total | EPA 8260B | 7C27024 | 0.90 | 1.0 | ND | 1 | 03/27/07 | 03/27/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 102 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 107 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 102 % | | | | |

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BOE-C6-0054509



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-05RE1 (MWB028_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Trichloroethene | EPA 8260B | 7C28004 | 2.6 | 10 | 780 | 10 | 03/28/07 | 03/28/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 106 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 107 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 110 % | | | | |

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Mar 28 2007

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BOE-C6-0054510

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|-------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2470-06 (MWB027_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Benzene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromobenzene | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromochloromethane | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromodichloromethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromoform | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromomethane | EPA 8260B | 7C27024 | 0.42 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C27024 | 3.8 | 5.0 | ND ^{4.5} | 1 | 03/27/07 | 03/28/07 | L |
| n-Butylbenzene | EPA 8260B | 7C27024 | 0.37 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| sec-Butylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| tert-Butylbenzene | EPA 8260B | 7C27024 | 0.22 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Carbon Disulfide | EPA 8260B | 7C27024 | 0.48 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Carbon tetrachloride | EPA 8260B | 7C27024 | 0.28 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| Chlorobenzene | EPA 8260B | 7C27024 | 0.36 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Chloroethane | EPA 8260B | 7C27024 | 0.40 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Chloroform | EPA 8260B | 7C27024 | 0.33 | 1.0 | 4.8 | 1 | 03/27/07 | 03/28/07 | |
| Chloromethane | EPA 8260B | 7C27024 | 0.40 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C27024 | 0.29 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C27024 | 0.97 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Dibromochloromethane | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C27024 | 0.37 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C27024 | 0.35 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C27024 | 0.79 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C27024 | 0.28 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C27024 | 0.42 | 1.0 | 170 | 1 | 03/27/07 | 03/28/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C27024 | 0.32 | 1.0 | 120 | 1 | 03/27/07 | 03/28/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C27024 | 0.27 | 1.0 | 1.1 | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C27024 | 0.35 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C27024 | 0.34 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C27024 | 0.22 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C27024 | 0.32 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| Ethylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C27024 | 0.38 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2-Hexanone | EPA 8260B | 7C27024 | 2.6 | 6.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Iodomethane | EPA 8260B | 7C27024 | 1.0 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Isopropylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| p-Isopropyltoluene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |

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BOE-C6-0054511



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-06 (MWB027_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Methylene chloride | EPA 8260B | 7C27024 | 0.95 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C27024 | 3.5 | 5.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| n-Propylbenzene | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Styrene | EPA 8260B | 7C27024 | 0.16 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C27024 | 0.24 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Tetrachloroethene | EPA 8260B | 7C27024 | 0.32 | 1.0 | 2.2 | 1 | 03/27/07 | 03/28/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C27024 | 3.5 | 10 | ND | 1 | 03/27/07 | 03/28/07 | |
| Toluene | EPA 8260B | 7C27024 | 0.36 | 1.0 | 1.2 U | 1 | 03/27/07 | 03/28/07 | B |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C27024 | 0.48 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C27024 | 0.34 | 2.0 | 22 | 1 | 03/27/07 | 03/28/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C27024 | 0.23 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C27024 | 0.26 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Vinyl acetate | EPA 8260B | 7C27024 | 1.7 | 6.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Vinyl chloride | EPA 8260B | 7C27024 | 0.30 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| Xylenes, Total | EPA 8260B | 7C27024 | 0.90 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 101 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 120 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 103 % | | | | |

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BOE-C6-0054512



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-06RE1 (MWB027_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Trichloroethene | EPA 8260B | 7C28012 | 2.6 | 10 | 400 | 10 | 03/28/07 | 03/28/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 106 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 119 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 106 % | | | | |

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4/25/07

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ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-06RE2 (MWB027_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C29029 | 4.5 | 10 | ND | 1 | 03/29/07 | 03/30/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 98 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 96 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 99 % | | | | |

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Nicholas Marz
Project Manager

M. Pehlivan

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BOE-C6-0054514

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TAIT Environmental/Boeing
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Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2470-07 (MWB027_WG032207_0002 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C27024 | 4.5 | 10 | ND <u>uj</u> | 1 | 03/27/07 | 03/28/07 | L |
| Benzene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromobenzene | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromochloromethane | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromodichloromethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromoform | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Bromomethane | EPA 8260B | 7C27024 | 0.42 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C27024 | 3.8 | 5.0 | ND <u>uj</u> | 1 | 03/27/07 | 03/28/07 | L |
| n-Butylbenzene | EPA 8260B | 7C27024 | 0.37 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| sec-Butylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| tert-Butylbenzene | EPA 8260B | 7C27024 | 0.22 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Carbon Disulfide | EPA 8260B | 7C27024 | 0.48 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Carbon tetrachloride | EPA 8260B | 7C27024 | 0.28 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| Chlorobenzene | EPA 8260B | 7C27024 | 0.36 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Chloroethane | EPA 8260B | 7C27024 | 0.40 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Chloroform | EPA 8260B | 7C27024 | 0.33 | 1.0 | 4.1 | 1 | 03/27/07 | 03/28/07 | |
| Chloromethane | EPA 8260B | 7C27024 | 0.40 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C27024 | 0.29 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C27024 | 0.97 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Dibromochloromethane | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C27024 | 0.37 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C27024 | 0.35 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C27024 | 0.79 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C27024 | 0.28 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C27024 | 0.27 | 1.0 | 0.30 | 1 | 03/27/07 | 03/28/07 | J |
| 1,1-Dichloroethene | EPA 8260B | 7C27024 | 0.42 | 1.0 | 160 | 1 | 03/27/07 | 03/28/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C27024 | 0.32 | 1.0 | 110 | 1 | 03/27/07 | 03/28/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C27024 | 0.27 | 1.0 | 0.72 | 1 | 03/27/07 | 03/28/07 | J |
| 1,2-Dichloropropane | EPA 8260B | 7C27024 | 0.35 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C27024 | 0.34 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C27024 | 0.22 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C27024 | 0.32 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| Ethylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C27024 | 0.38 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 2-Hexanone | EPA 8260B | 7C27024 | 2.6 | 6.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Iodomethane | EPA 8260B | 7C27024 | 1.0 | 2.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Isopropylbenzene | EPA 8260B | 7C27024 | 0.25 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |

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Nicholas Marz
Project Manager

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BOE-C6-0054515



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-07 (MWB027_WG032207_0002 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | 7C27024 | 0.28 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C27024 | 0.32 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Methylene chloride | EPA 8260B | 7C27024 | 0.95 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C27024 | 3.5 | 5.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| n-Propylbenzene | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Styrene | EPA 8260B | 7C27024 | 0.16 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C27024 | 0.27 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C27024 | 0.24 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Tetrachloroethene | EPA 8260B | 7C27024 | 0.32 | 1.0 | 1.8 | 1 | 03/27/07 | 03/28/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C27024 | 3.5 | 10 | ND | 1 | 03/27/07 | 03/28/07 | |
| Toluene | EPA 8260B | 7C27024 | 0.36 | 1.0 | 0.91 | 1.04 | 03/27/07 | 03/28/07 | B, J |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C27024 | 0.48 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C27024 | 0.30 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C27024 | 0.34 | 2.0 | 19 | 1 | 03/27/07 | 03/28/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C27024 | 0.40 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C27024 | 0.23 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C27024 | 0.26 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Vinyl acetate | EPA 8260B | 7C27024 | 1.7 | 6.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Vinyl chloride | EPA 8260B | 7C27024 | 0.30 | 0.50 | ND | 1 | 03/27/07 | 03/28/07 | |
| Xylenes, Total | EPA 8260B | 7C27024 | 0.90 | 1.0 | ND | 1 | 03/27/07 | 03/28/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 102 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 119 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 102 % | | | | |

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Project Manager

No. 1007

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BOE-C6-0054516



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-07RE1 (MWB027_WG032207_0002 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Trichloroethene | EPA 8260B | 7C28004 | 2.6 | 10 | 370 | 10 | 03/28/07 | 03/28/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 103 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 112 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 110 % | | | | |

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Project Manager

Handwritten signature

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BOE-C6-0054517

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2470-13 (CMW002_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Benzene | EPA 8260B | 7C29027 | 0.28 | 1.0 | 60 | 1 | 03/29/07 | 03/29/07 | |
| Bromobenzene | EPA 8260B | 7C29027 | 0.27 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Bromochloromethane | EPA 8260B | 7C29027 | 0.32 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Bromodichloromethane | EPA 8260B | 7C29027 | 0.30 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Bromoform | EPA 8260B | 7C29027 | 0.40 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Bromomethane | EPA 8260B | 7C29027 | 0.42 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C29027 | 3.8 | 5.0 | ND | 1 | 03/29/07 | 03/29/07 | C, L |
| n-Butylbenzene | EPA 8260B | 7C29027 | 0.37 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| sec-Butylbenzene | EPA 8260B | 7C29027 | 0.25 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| tert-Butylbenzene | EPA 8260B | 7C29027 | 0.22 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Carbon Disulfide | EPA 8260B | 7C29027 | 0.48 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Carbon tetrachloride | EPA 8260B | 7C29027 | 0.28 | 0.50 | ND | 1 | 03/29/07 | 03/29/07 | |
| Chloroethane | EPA 8260B | 7C29027 | 0.40 | 2.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Chloroform | EPA 8260B | 7C29027 | 0.33 | 1.0 | 1.1 | 1 | 03/29/07 | 03/29/07 | |
| Chloromethane | EPA 8260B | 7C29027 | 0.40 | 2.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C29027 | 0.28 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C29027 | 0.29 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C29027 | 0.97 | 2.0 | ND | 1 | 03/29/07 | 03/29/07 | L |
| Dibromochloromethane | EPA 8260B | 7C29027 | 0.28 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C29027 | 0.40 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C29027 | 0.37 | 1.0 | 9.2 | 1 | 03/29/07 | 03/29/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C29027 | 0.32 | 1.0 | 1.4 | 1 | 03/29/07 | 03/29/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C29027 | 0.35 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C29027 | 0.79 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C29027 | 0.28 | 0.50 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C29027 | 0.27 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C29027 | 0.42 | 1.0 | 1.2 | 1 | 03/29/07 | 03/29/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C29027 | 0.32 | 1.0 | 3.3 | 1 | 03/29/07 | 03/29/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C29027 | 0.27 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C29027 | 0.35 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C29027 | 0.34 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C29027 | 0.22 | 0.50 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C29027 | 0.28 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C29027 | 0.32 | 0.50 | ND | 1 | 03/29/07 | 03/29/07 | |
| Ethylbenzene | EPA 8260B | 7C29027 | 0.25 | 1.0 | 1.1 | 1 | 03/29/07 | 03/29/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C29027 | 0.38 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 2-Hexanone | EPA 8260B | 7C29027 | 2.6 | 6.0 | ND | 1 | 03/29/07 | 03/29/07 | C, L |
| Iodomethane | EPA 8260B | 7C29027 | 1.0 | 2.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Isopropylbenzene | EPA 8260B | 7C29027 | 0.25 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| p-Isopropyltoluene | EPA 8260B | 7C29027 | 0.28 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C29027 | 0.32 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |

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Project Manager

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ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2470-13 (CMW002_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C29027 | 3.5 | 5.0 | ND <i>UJ</i> | 1 | 03/29/07 | 03/29/07 | L |
| n-Propylbenzene | EPA 8260B | 7C29027 | 0.27 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Styrene | EPA 8260B | 7C29027 | 0.16 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C29027 | 0.27 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C29027 | 0.24 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Tetrachloroethene | EPA 8260B | 7C29027 | 0.32 | 1.0 | 1.8 | 1 | 03/29/07 | 03/29/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C29027 | 3.5 | 10 | ND <i>UJ</i> | 1 | 03/29/07 | 03/29/07 | C, L |
| Toluene | EPA 8260B | 7C29027 | 0.36 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C29027 | 0.30 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C29027 | 0.48 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C29027 | 0.30 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C29027 | 0.30 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C29027 | 0.34 | 2.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C29027 | 0.40 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C29027 | 0.23 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C29027 | 0.26 | 1.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Vinyl acetate | EPA 8260B | 7C29027 | 1.7 | 6.0 | ND | 1 | 03/29/07 | 03/29/07 | |
| Vinyl chloride | EPA 8260B | 7C29027 | 0.30 | 0.50 | ND | 1 | 03/29/07 | 03/29/07 | |
| Xylenes, Total | EPA 8260B | 7C29027 | 0.90 | 1.0 | 2.4 | 1 | 03/29/07 | 03/29/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 92 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 98 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 97 % | | | | |

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BOE-C6-0054519



ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-13RE1 (CMW002_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chlorobenzene | EPA 8260B | 7C30007 | 18 | 50 | 7400 | 50 | 03/30/07 | 03/30/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 89 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 99 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 98 % | | | | |

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Project Manager

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BOE-C6-0054520

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-13RE2 (CMW002_WG032207_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C30007 | 22 | 50 | ND <i>UJ</i> | 5 | 03/30/07 | 03/30/07 | |
| Methylene chloride | EPA 8260B | 7C30007 | 4.8 | 5.0 | ND | 5 | 03/30/07 | 03/30/07 | |
| Trichloroethene | EPA 8260B | 7C30007 | 1.3 | 5.0 | 340 | 5 | 03/30/07 | 03/30/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 96 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 99 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 98 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

1025-1007

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IQC2470 <Page 43 of 98>

BOE-C6-0054521

LDC #: 16739B1
SDG #: IQC2470
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

Tier 2

Date: 5/10/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|------------------------------|
| I. | Technical holding times | A | Sampling dates: 3/22/07 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | SW | % RSD, r^2 20.990 |
| IV. | Continuing calibration | SW | |
| V. | Blanks | SW | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | SA | CMW001 - WG032207-0001 MS 1P |
| VIII. | Laboratory control samples | SW | LCs |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | SW | D = 2 + 3 |
| XVII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

water

| | | | | | | | | | | |
|----|----|-----------------|-------------------------|----|---|-----------------|----|--|----|--|
| 5 | 1 | 2 = 3 | MWB028_WG032207_0001 | 11 | 1 | 7C27024 - Blk 1 | 21 | | 31 | |
| 6 | 2 | 3 = 5 4 = F | MWB027_WG032207_0001 p | 12 | 2 | 7C28004 - Blk 1 | 22 | | 32 | |
| 7 | 3 | 2 = 3 | MWB027_WG032207_0002 D | 13 | 3 | 7C28012 - Blk 1 | 23 | | 33 | |
| 13 | 4 | 6 = DD, F, F, S | CMW002_WG032207_0001 | 14 | 4 | 7C29029 - Blk 1 | 24 | | 34 | |
| | 5 | | MWB028_WG032207_0001MS | 15 | 5 | 7C29027 - Blk 1 | 25 | | 35 | |
| | 6 | | MWB028_WG032207_0001MSD | 16 | 6 | 7C30007 - Blk 1 | 26 | | 36 | |
| | 7 | | | 17 | | | 27 | | 37 | |
| | 8 | | | 18 | | | 28 | | 38 | |
| | 9 | | | 19 | | | 29 | | 39 | |
| | 10 | | | 20 | | | 30 | | 40 | |

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

| | | | | |
|------------------------------|---------------------------------|-------------------------------|--|-------------------------|
| A. Chloromethane* | U. 1,1,2-Trichloroethane | OO. 2,2-Dichloropropane | III. n-Butylbenzene | CCCC. 1-Chlorohexane |
| B. Bromomethane | V. Benzene | PP. Bromochloromethane | JJJ. 1,2-Dichlorobenzene | DDDD. Isopropyl alcohol |
| C. Vinyl chloride** | W. trans-1,3-Dichloropropene | QQ. 1,1-Dichloropropene | KKK. 1,2,4-Trichlorobenzene | EEEE. Acetonitrile |
| D. Chloroethane | X. Bromoform* | RR. Dibromomethane | LLL. Hexachlorobutadiene | FFFF. Acrolein |
| E. Methylene chloride | Y. 4-Methyl-2-pentanone | SS. 1,3-Dichloropropane | MMM. Naphthalene | GGGG. Acrylonitrile |
| F. Acetone | Z. 2-Hexanone | TT. 1,2-Dibromoethane | NNN. 1,2,3-Trichlorobenzene | HHHH. 1,4-Dioxane |
| G. Carbon disulfide | AA. Tetrachloroethene | UU. 1,1,1,2-Tetrachloroethane | OOO. 1,3,5-Trichlorobenzene | IIII. Isobutyl alcohol |
| H. 1,1-Dichloroethene** | BB. 1,1,2,2-Tetrachloroethane* | VV. Isopropylbenzene | PPP. trans-1,2-Dichloroethene | JJJJ. Methacrylonitrile |
| I. 1,1-Dichloroethane* | CC. Toluene** | WW. Bromobenzene | QQQ. cis-1,2-Dichloroethene | KKKK. Propionitrile |
| J. 1,2-Dichloroethene, total | DD. Chlorobenzene* | XX. 1,2,3-Trichloropropane | RRR. m,p-Xylenes | LLLL. Ethyl ether |
| K. Chloroform** | EE. Ethylbenzene** | YY. n-Propylbenzene | SSS. o-Xylene | MMMM. Benzyl chloride |
| L. 1,2-Dichloroethane | FF. Styrene | ZZ. 2-Chlorotoluene | TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane | NNNN. |
| M. 2-Butanone | GG. Xylenes, total | AAA. 1,3,5-Trimethylbenzene | UUU. 1,2-Dichlorotetrafluoroethane | OOOO. |
| N. 1,1,1-Trichloroethane | HH. Vinyl acetate | BBB. 4-Chlorotoluene | VVV. 4-Ethyltoluene | PPPP. |
| O. Carbon tetrachloride | II. 2-Chloroethylvinyl ether | CCC. tert-Butylbenzene | WWW. Ethanol | QQQQ. |
| P. Bromodichloromethane | JJ. Dichlorodifluoromethane | DDD. 1,2,4-Trimethylbenzene | XXX. Di-isopropyl ether | RRRR. |
| Q. 1,2-Dichloropropane** | KK. Trichlorofluoromethane | EEE. sec-Butylbenzene | YYY. tert-Butanol | SSSS. |
| R. cis-1,3-Dichloropropene | LL. Methyl-tert-butyl ether | FFF. 1,3-Dichlorobenzene | ZZZ. tert-Butyl alcohol | TTTT. |
| S. Trichloroethene | MM. 1,2-Dibromo-3-chloropropane | GGG. p-Isopropyltoluene | AAAA. Ethyl tert-butyl ether | UUUU. |
| T. Dibromochloromethane | NN. Methyl ethyl ketone | HHH. 1,4-Dichlorobenzene | BBBB. tert-Amyl methyl ether | VVVV. |

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 6739131
SDG #: per con

Did the laboratory perform a 5 point calibration prior to sample analysis?

| | | | |
|---|---|---|-----|
| Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's? | Y | N | N/A |
| Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? | Y | N | N/A |

| | Y | N | N/A |
|--|---|---|-----|
| Were all %RSDs and RRFs within the validation criteria of $\leq 30\%$ RSD and ≥ 0.05 RRF? | | | |

[illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?

Were all %D and RRFs within the validation criteria of $\leq 25\%$ D and ≥ 0.05 RRF ?

[illegible]

VALIDATION FINDINGS WORKSHEET Blanks

LDC #: 16739B1
 SDG #: per carrier

Page: 1 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- ☒ Y ☒ N ☒ N/A Was a method blank associated with every sample in this SDG?
- ☒ Y ☒ N ☒ N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
- ☒ Y ☒ N ☒ N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 3/27/07

Conc. units: ug/L Associated Samples: 1-7 3

| Compound | Blank ID | Sample Identification | | | |
|--------------------|--------------|-----------------------|---------|-----------------------|--|
| Tetrahydrofuran | 7027024-BLK1 | 1 | 2 | 3 | |
| Methylene chloride | 8.04 | - | - | - | |
| Acetone | 0.440 | 0.84/1.0 ^u | 1.2/1.0 | 0.91/1.0 ^u | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| CRQL | | | | | |

Blank analysis date: 3/29/07

Conc. units: ug/L Associated Samples: 4 (ND)

| Compound | Blank ID | Sample Identification | | | |
|--------------------|--------------|-----------------------|--|--|--|
| Tetrahydrofuran | 7029027-BLK1 | | | | |
| Methylene chloride | 5.88 | | | | |
| Acetone | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| CRQL | | | | | |

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 16739B1

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 2 of 2

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 3/30/07

Conc. units: ug/L

Associated Samples: 4 (ND)

| Compound | Blank ID | Sample Identification | | | | | | | | | |
|--------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| | 7C30007- BX1 | | | | | | | | | | |
| Methylene chloride | 1.64 | | | | | | | | | | |
| Acetone | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CRQL | | | | | | | | | | | |

Blank analysis date: _____

Conc. units: _____

Associated Samples: _____

| Compound | Blank ID | Sample Identification | | | | | | | | | |
|--------------------|----------|-----------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| Methylene chloride | | | | | | | | | | | |
| Acetone | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CRQL | | | | | | | | | | | |

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

BLANKS2.1SB

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Was a MS/MSD analyzed every 20 samples of each matrix?

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

MSD.1SB

LDC #: 16739B1
SDG #: per cover

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a LCS required?

Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

[illegible]

LDC #: 16739B/
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: AK
2nd reviewer: AK

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A
Y N N/A

Were field duplicate pairs identified in this SDG?
Were target compounds detected in the field duplicate pairs?

| Compound | Concentration (<u>ug/L</u>) | | RPD |
|----------|-------------------------------|------|-----|
| | 2 | 3 | |
| K | 4.8 | 4.1 | 16 |
| H | 170 | 160 | 6 |
| QQQ | 120 | 110 | 9 |
| PPP | 1.1 | 0.72 | 42 |
| AA | 2.2 | 1.8 | 20 |

| Compound | Concentration () | | RPD |
|----------|-------------------|------|-----|
| | | | |
| CC | 1.2 | 0.91 | 27 |
| KK | 22 | 19 | 15 |
| S | 400 | 370 | 8 |
| I | 1.0u | 0.3 | 200 |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

LDC Report# 16739C1

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 27, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 3

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC2895

Sample Identification

MWB019_WG032707_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

| Date | Compound | RRF (Limits) | Associated Samples | Flag | A or P |
|---------|------------|-----------------------|----------------------------|---|--------|
| 2/28/07 | 2-Butanone | 0.037 (≥ 0.05) | All samples in SDG IQC2895 | J (all detects) UJ (all non-detects) | A |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|--------|--|-------------------------------|-------------------------------|---|--------|
| 4/3/07 | Acetone 2-Butanone 2,2-Dichloropropane 2-Hexanone | 109.3 70.3 29.1 63.9 | All samples in SDG IQC2895 | J (all detects) UJ (all non-detects) | A |

All of the continuing calibration RRF values were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Analysis Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|---------------|------------------------------------|-------------------------|-------------------------------|
| 7D03010-BLK1 | 4/3/07 | Tetrahydrofuran Trichloroethene | 8.04 ug/L 0.480 ug/L | All samples in SDG IQC2895 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound TIC (RT in minutes) | Reported Concentration | Modified Final Concentration |
|----------------------------|---------------------------------|---------------------------|---------------------------------|
| MWB019_WG032707_0001 (10X) | Tetrahydrofuran | 64 ug/L | 100U ug/L |

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| LCS ID | Compound | %R (Limits) | Associated Samples | Flag | A or P |
|-------------|---|--|-------------------------------|---|--------|
| 7D03010-BS1 | Acetone 2-Butanone 1,2-Dibromo-3-chloropropane 2-Hexanone 4-Methyl-2-pentanone 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane | 263 (30-140) 237 (40-140) 138 (50-135) 211 (45-140) 144 (45-140) 134 (55-130) 136 (60-130) | All samples in SDG IQC2895 | J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) | P |

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Volatiles - Data Qualification Summary - SDG IQC2895

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------|----------------------|---|---|--------|---------------------------------|
| IQC2895 | MWB019_WG032707_0001 | 2-Butanone | J (all detects) UJ (all non-detects) | A | Initial calibration (RRF) |
| IQC2895 | MWB019_WG032707_0001 | Acetone 2-Butanone 2,2-Dichloropropane 2-Hexanone | J (all detects) UJ (all non-detects) | A | Continuing calibration (%D) |
| IQC2895 | MWB019_WG032707_0001 | Acetone 2-Butanone 1,2-Dibromo-3-chloropropane 2-Hexanone 4-Methyl-2-pentanone 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane | J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) | P | Laboratory control samples (%R) |

Boeing Realty Corp., Bldg C-6 Torrance
Volatiles - Laboratory Blank Data Qualification Summary - SDG IQC2895

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|---------|----------------------------|---------------------------------|---------------------------------|--------|
| IQC2895 | MWB019_WG032707_0001 (10X) | Tetrahydrofuran | 100U ug/L | A |

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2895

Sampled: 03/27/07
Received: 03/27/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2895-07 (MWB019_WG032707_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chloroform | EPA 8260B | 7D02027 | 16 | 50 | 3600 | 50 | 04/02/07 | 04/03/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 102 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 116 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 110 % | | | | |
| Sample ID: IQC2895-07RE1 (MWB019_WG032707_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7D03010 | 45 | 100 | ND 4.5 | 10 | 04/03/07 | 04/03/07 | C, L |
| Benzene | EPA 8260B | 7D03010 | 2.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Bromobenzene | EPA 8260B | 7D03010 | 2.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Bromochloromethane | EPA 8260B | 7D03010 | 3.2 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Bromodichloromethane | EPA 8260B | 7D03010 | 3.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Bromoform | EPA 8260B | 7D03010 | 4.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Bromomethane | EPA 8260B | 7D03010 | 4.2 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7D03010 | 38 | 50 | ND 4.5 | 10 | 04/03/07 | 04/03/07 | C, L |
| n-Butylbenzene | EPA 8260B | 7D03010 | 3.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| sec-Butylbenzene | EPA 8260B | 7D03010 | 2.5 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| tert-Butylbenzene | EPA 8260B | 7D03010 | 2.2 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Carbon Disulfide | EPA 8260B | 7D03010 | 4.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Carbon tetrachloride | EPA 8260B | 7D03010 | 2.8 | 5.0 | 10 | 10 | 04/03/07 | 04/03/07 | |
| Chlorobenzene | EPA 8260B | 7D03010 | 3.6 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Chloroethane | EPA 8260B | 7D03010 | 4.0 | 20 | ND | 10 | 04/03/07 | 04/03/07 | |
| Chloromethane | EPA 8260B | 7D03010 | 4.0 | 20 | ND | 10 | 04/03/07 | 04/03/07 | |
| 2-Chlorotoluene | EPA 8260B | 7D03010 | 2.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 4-Chlorotoluene | EPA 8260B | 7D03010 | 2.9 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7D03010 | 9.7 | 20 | ND | 10 | 04/03/07 | 04/03/07 | L |
| Dibromochloromethane | EPA 8260B | 7D03010 | 2.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7D03010 | 4.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7D03010 | 3.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7D03010 | 3.2 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7D03010 | 3.5 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7D03010 | 7.9 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7D03010 | 2.8 | 5.0 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7D03010 | 2.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7D03010 | 4.2 | 10 | 4.3 | 10 | 04/03/07 | 04/03/07 | J |
| cis-1,2-Dichloroethene | EPA 8260B | 7D03010 | 3.2 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7D03010 | 2.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7D03010 | 3.5 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7D03010 | 3.4 | 10 | ND 4.5 | 10 | 04/03/07 | 04/03/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7D03010 | 2.2 | 5.0 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7D03010 | 2.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

6/5/07

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IQC2895 <Page 19 of 76>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2895

Sampled: 03/27/07
Received: 03/27/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2895-07RE1 (MWB019_WG032707_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | 7D03010 | 3.2 | 5.0 | ND | 10 | 04/03/07 | 04/03/07 | |
| Ethylbenzene | EPA 8260B | 7D03010 | 2.5 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Hexachlorobutadiene | EPA 8260B | 7D03010 | 3.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 2-Hexanone | EPA 8260B | 7D03010 | 26 | 60 | ND | 45 10 | 04/03/07 | 04/03/07 | C, L |
| Iodomethane | EPA 8260B | 7D03010 | 10 | 20 | ND | 10 | 04/03/07 | 04/03/07 | |
| Isopropylbenzene | EPA 8260B | 7D03010 | 2.5 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| p-Isopropyltoluene | EPA 8260B | 7D03010 | 2.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7D03010 | 3.2 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Methylene chloride | EPA 8260B | 7D03010 | 9.5 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7D03010 | 35 | 50 | ND | 10 | 04/03/07 | 04/03/07 | L |
| n-Propylbenzene | EPA 8260B | 7D03010 | 2.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Styrene | EPA 8260B | 7D03010 | 1.6 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7D03010 | 2.7 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7D03010 | 2.4 | 10 | ND | 10 | 04/03/07 | 04/03/07 | L |
| Tetrachloroethene | EPA 8260B | 7D03010 | 3.2 | 10 | 150 | 10 | 04/03/07 | 04/03/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7D03010 | 35 | 100 | 64 100 10 | 10 | 04/03/07 | 04/03/07 | B, J |
| Toluene | EPA 8260B | 7D03010 | 3.6 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7D03010 | 3.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7D03010 | 4.8 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7D03010 | 3.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7D03010 | 3.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Trichloroethene | EPA 8260B | 7D03010 | 2.6 | 10 | 160 | 10 | 04/03/07 | 04/03/07 | |
| Trichlorofluoromethane | EPA 8260B | 7D03010 | 3.4 | 20 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7D03010 | 4.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | L |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7D03010 | 2.3 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7D03010 | 2.6 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Vinyl acetate | EPA 8260B | 7D03010 | 17 | 60 | ND | 10 | 04/03/07 | 04/03/07 | |
| Vinyl chloride | EPA 8260B | 7D03010 | 3.0 | 5.0 | ND | 10 | 04/03/07 | 04/03/07 | |
| Xylenes, Total | EPA 8260B | 7D03010 | 9.0 | 10 | ND | 10 | 04/03/07 | 04/03/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 103 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 111 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 109 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

4251007

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IQC2895 <Page 20 of 76>

LDC #: 16739C1
SDG #: IQC2895
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

Tier 3

Date: 5/10/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|--------------------------|
| I. | Technical holding times | A | Sampling dates: 3/27/07 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | SW | % RSD, r^2 10.990 |
| IV. | Continuing calibration | SW | |
| V. | Blanks | SW | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | SW | TMW-06-WG032707-0001MS1D |
| VIII. | Laboratory control samples | SW | LC5 |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/CRQLs | A | |
| XIII. | Tentatively identified compounds (TICs) | N | not reported |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

water

2 = BK

| | | | | | | | | | |
|----|---|----------------------|----|---|-------------|----|--|----|--|
| 1 | 1 | MWB019_WG032707_0001 | 11 | 1 | 7D03010-BK1 | 21 | | 31 | |
| 2 | | | 12 | 2 | 7D02027-BK1 | 22 | | 32 | |
| 3 | | | 13 | | | 23 | | 33 | |
| 4 | | | 14 | | | 24 | | 34 | |
| 5 | | | 15 | | | 25 | | 35 | |
| 6 | | | 16 | | | 26 | | 36 | |
| 7 | | | 17 | | | 27 | | 37 | |
| 8 | | | 18 | | | 28 | | 38 | |
| 9 | | | 19 | | | 29 | | 39 | |
| 10 | | | 20 | | | 30 | | 40 | |

DC #: 16739C1
SDG #: I 9C2895

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: A
2nd Reviewer: A

Method: Volatiles (EPA SW 846 Method 8260B)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| II. GC/MS instrument performance check | | | | |
| Were the BFB performance results reviewed and found to be within the specified criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples analyzed within the 12 hour clock criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a curve fit used for evaluation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a method blank analyzed at least once every 12 hours for each matrix and concentration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

DC #: 16739C1
SDG #: I 2 C 2 895

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: B
2nd Reviewer: C

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Was an LCS analyzed per analytical batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X. Internal standards | | | | |
| Were internal standard area counts within -50% or +100% of the associated calibration standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were retention times within + 30 seconds of the associated calibration standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Stage 1 compound identification | | | | |
| Were relative retention times (RRT's) within + 0.06 RRT units of the standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were chromatogram peaks verified and accounted for? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. Compound quantitation/CRQLs | | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Reliably identified compounds (RfICs) | | | | |
| Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| IV. System performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| V. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XV. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field duplicates. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XVI. Field blanks | | | | |
| Field blanks were identified in this SDG. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field blanks. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

| | | | | |
|------------------------------|--------------------------------|---------------------------------|--|------------------------------------|
| A. Chloromethane* | S. Trichloroethene | KK. Trichlorofluoromethane | CCC. tert-Butylbenzene | UUU. 1,2-Dichlorotetrafluoroethane |
| B. Bromomethane | T. Dibromochloromethane | LL. Methyl-tert-butyl ether | DDD. 1,2,4-Trimethylbenzene | VVV. 4-Ethyltoluene |
| C. Vinyl chloride** | U. 1,1,2-Trichloroethane | MM. 1,2-Dibromo-3-chloropropane | EEE. sec-Butylbenzene | WWW. Ethanol |
| D. Chloroethane | V. Benzene | NN. Methyl ethyl ketone | FFF. 1,3-Dichlorobenzene | XXX. Di-isopropyl ether |
| E. Methylene chloride | W. trans-1,3-Dichloropropene | OO. 2,2-Dichloropropane | GGG. p-Isopropyltoluene | YYY. tert-Butanol |
| F. Acetone | X. Bromoform* | PP. Bromochloromethane | HHH. 1,4-Dichlorobenzene | ZZZ. tert-Butyl alcohol |
| G. Carbon disulfide | Y. 4-Methyl-2-pentanone | QQ. 1,1-Dichloropropene | III. n-Butylbenzene | AAA. Ethyl tert-butyl ether |
| H. 1,1-Dichloroethene** | Z. 2-Hexanone | RR. Dibromomethane | JJJ. 1,2-Dichlorobenzene | BBB. tert-Amyl methyl ether |
| I. 1,1-Dichloroethane* | AA. Tetrachloroethene | SS. 1,3-Dichloropropane | KKK. 1,2,4-Trichlorobenzene | CCC. 1-Chlorohexane |
| J. 1,2-Dichloroethene, total | BB. 1,1,2,2-Tetrachloroethane* | TT. 1,2-Dibromoethane | LLL. Hexachlorobutadiene | DDD. Isopropyl alcohol |
| K. Chloroform** | CC. Toluene** | UU. 1,1,1,2-Tetrachloroethane | MMM. Naphthalene | EEE. Acetonitrile |
| L. 1,2-Dichloroethane | DD. Chlorobenzene* | VV. Isopropylbenzene | NNN. 1,2,3-Trichlorobenzene | FFF. Acrolein |
| M. 2-Butanone | EE. Ethylbenzene** | WW. Bromobenzene | OOO. 1,3,5-Trichlorobenzene | GGG. Acrylonitrile |
| N. 1,1,1-Trichloroethane | FF. Styrene | XX. 1,2,3-Trichloropropane | PPP. trans-1,2-Dichloroethene | HHH. 1,4-Dioxane |
| O. Carbon tetrachloride | GG. Xylenes, total | YY. n-Propylbenzene | QQQ. cis-1,2-Dichloroethene | III. Isobutyl alcohol |
| P. Bromodichloromethane | HH. Vinyl acetate | ZZ. 2-Chlorotoluene | RRR. m,p-Xylenes | JJJ. Methacrylonitrile |
| Q. 1,2-Dichloropropane** | II. 2-Chloroethylvinyl ether | AAA. 1,3,5-Trimethylbenzene | SSS. o-Xylene | KKK. Propionitrile |
| R. cis-1,3-Dichloropropene | JJ. Dichlorodifluoromethane | BBB. 4-Chlorotoluene | TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane | LLL. LLL. |

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

| | | |
|--|---|-----|
| Did the laboratory perform a 5 point calibration prior to sample analysis? | N | N/A |
|--|---|-----|

| Y | N | N/A |
|---|---|-----|
| | | |

| Y | N | N/A |
|---|---|-----|
| | | |

Did the initial calibration meet the acceptance criteria?

| | | |
|--|---|-----|
| Y | N | N/A |
| Were all %RSDs and RRFs within the validation criteria of $\leq 30\%$ RSD and ≥ 0.05 RRF? | | |

[illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?

| Y/N | N/A | Were all %D and RRFs within the validation criteria of $\leq 25\%$ D and ≥ 0.05 RRF? |
|-------------------------------------|-----|---|
| <input checked="" type="checkbox"/> | | |

[illegible]

LDC #: 16739C1
SDG #: I QC2895

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 1 of 1
Reviewer: PT
2nd Reviewer: RA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- ☒ Y ☐ N ☐ N/A Was a method blank associated with every sample in this SDG?
- ☒ Y ☐ N ☐ N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
- ☒ Y ☐ N ☐ N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 4/3/07

Conc. units: ug/L

Associated Samples: A 11

| Compound | Blank ID | Sample Identification | | | | | | | | | |
|---------------------------|--------------|-----------------------|--|--|--|--|--|--|--|--|--|
| Tetrahydrofuran | 7D03010-BLK1 | 1 (10X) | | | | | | | | | |
| Methylene chloride | 8.04 | 64/100u | | | | | | | | | |
| Acetone | 0.480 | 160 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CRQL | | | | | | | | | | | |

Blank analysis date: _____
Conc. units: _____

Associated Samples: _____

| Compound | Blank ID | Sample Identification | | | | | | | | | |
|---------------------------|----------|-----------------------|--|--|--|--|--|--|--|--|--|
| Methylene chloride | | | | | | | | | | | |
| Acetone | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CRQL | | | | | | | | | | | |

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

~~Yes~~ ~~N/A~~ Was a MS/MSD analyzed every 20 samples of each matrix?

| | | |
|---|---|-----|
| Y | N | N/A |
|---|---|-----|

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

| | | |
|----------------------|---|-----|
| Was a LCS required? | N | N/A |
| Were the LCS percent | Y | N/A |

[illegible]

LDC #: 1673901

SDG #: 1802895

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1

Reviewer: 2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s)(C_i)/(A_i)(C_s)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_s = Area of compound,C_s = Concentration of compound,

S = Standard deviation of the RRFs

X = Mean of the RRFs

A_i = Area of associated internal standardC_i = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-------------|------------------|--|-----------------|-----------------|--------------------------|--------------------------|----------|--------------|
| | | | | RRF (25 std) | RRF (25 std) | Average RRF (Initial) | Average RRF (Initial) | %RSD | %RSD |
| 1 | 14 L | 2/28/07 | Methylene chloride (1st internal standard) | 0.452 | 0.452 | 0.474 | 0.474 | 7.78 | 7.78 |
| | | | Trichlorethene (2nd internal standard) | 0.336 | 0.336 | 0.331 | 0.331 | 5.92 | 5.92 |
| | | | Toluene (3rd internal standard) | 1.365 | 1.365 | 1.314 | 1.314 | 10.24 | 10.24 |
| 2 | | | Methylene chloride (1st internal standard) | 1.639 | 1.639 | 1.623 | 1.623 | 4.92 | 4.92 |
| | | | Trichlorethene (2nd internal standard) | | | | | | |
| | | | Toluene (3rd internal standard) | | | | | | |
| 3 | | | Methylene chloride (1st internal standard) | | | | | | |
| | | | Trichlorethene (2nd internal standard) | | | | | | |
| | | | Toluene (3rd internal standard) | | | | | | |
| 4 | | | Methylene chloride (1st internal standard) | | | | | | |
| | | | Trichlorethene (2nd internal standard) | | | | | | |
| | | | Toluene (3rd internal standard) | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INCLC:15B

DC #: 16739C1
SDG #: F822895

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
RRF = $(A_x)(C_s) / (A_s)(C_x)$

Where: ave. RRF = Initial calibration average RRF
RRF = continuing calibration RRF
 A_x = Area of compound,
 C_x = Concentration of compound,
 A_s = Area of associated internal standard
 C_s = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Average RRF (Initial) | Reported | | Recalculated | |
|---|-------------|------------------|--|-----------------------|----------|------|--------------|------|
| | | | | | RRF (CC) | %D | RRF (CC) | %D |
| 1 | sev 6:46 | 4/2/07 | Chloroform Methylene chloride (1st Internal standard) | 0.756 | 0.872 | 15.3 | 0.872 | 15.3 |
| | | | Trichlorethene (2nd Internal standard) | | | | | |
| | | | Toluene (3rd Internal standard) | | | | | |
| 2 | sev 9:13 | 4/3/07 | Methylene chloride (1st Internal standard) | 0.474 | 0.468 | 1.3 | 0.468 | 1.3 |
| | | | Trichlorethene (2nd Internal standard) | 0.331 | 0.357 | 7.9 | 0.357 | 7.9 |
| | | | 1,2-DCB Toluene (3rd Internal standard) | 1.314 | 1.403 | 6.8 | 1.403 | 6.8 |
| 3 | | | Methylene chloride (1st Internal standard) | 1.623 | 1.767 | 8.9 | 1.767 | 8.9 |
| | | | Trichlorethene (2nd Internal standard) | | | | | |
| | | | Toluene (3rd Internal standard) | | | | | |
| 4 | | | Methylene chloride (1st Internal standard) | | | | | |
| | | | Trichlorethene (2nd Internal standard) | | | | | |
| | | | Toluene (3rd Internal standard) | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLO.1SB

LDC #: 16739C1
SDG #: IQC2895

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: R
2nd reviewer: R

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

10X

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | 25.0 | 21.17 | 109 | 109 | 0 |
| Bromofluorobenzene | ↓ | 25.73 | 103 | 103 | ↓ |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | ↓ | 27.66 | 111 | 2x 111 | ↓ |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

LDC #: 16739C1
SDG #: E 002895

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: 77
2nd Reviewer: 8

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

$$\text{RPD} = 100 * (\text{MSC} - \text{MSDC}) / \text{MSC}$$

MSC = Matrix spike percent recovery
MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: TMW-06-WG032707-0001 MS 1D

| Compound | Spike Added (ug/L) | | Sample Concentration (ug/L) | | Spiked Sample Concentration (ug/L) | | Matrix Spike Percent Recovery | | Matrix Spike Duplicate Percent Recovery | | MS/MSD RPD | |
|--------------------|--------------------|------|-----------------------------|-----|------------------------------------|------|-------------------------------|---------|---|---------|------------|--------------|
| | MS | MSD | MS | MSD | MS | MSD | Reported | Recalc. | Reported | Recalc. | Reported | Recalculated |
| | | | | | | | | | | | | |
| 1,1-Dichloroethene | 25.0 | 25.0 | 13 | | 36.7 | 36.4 | 95 | 95 | 94 | 94 | 1 | 1 |
| Trichloroethene | | | 140 | | 158 | 144 | 72 | 72 | 16 | 16 | 9 | 9 |
| Benzene | | | ND | | 26.4 | 26.0 | 106 | 106 | 104 | 104 | 2 | 2 |
| Toluene | | | ND | | 26.5 | 26.2 | 106 | 106 | 105 | 105 | 1 | 1 |
| Chlorobenzene | | | ND | | 27.4 | 27.2 | 110 | 110 | 109 | 109 | 1 | 1 |

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Page: 1 of 1
Reviewer: PH
2nd Reviewer: AL

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \text{SSC/SA}$
Where: SSC = Spiked sample concentration
SA = Spike added

$$RPD = |LCS - LCSD| * 2 / (LCS + LCSD)$$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 7D03010-B51

[illegible]

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Boeing Realty Corp., Bldg C-6 Torrance
Data Validation Reports
LDC# 16739

Maganese

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 14, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Manganese

Validation Level: Tier 1

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC1612

Sample Identification

MWB013_WG031407_0001

MWC021_WG031407_0001

MWB013_WG031407_0001MS

MWB013_WG031407_0001MSD

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Manganese.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Samples indicated by a double asterisk on the front cover underwent a Tier 2 review. A Tier 1 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 1 and 2 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

Calibration data were not reviewed for Tier 1.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the preparation blanks.

IV. ICP Interference Check Sample (ICS) Analysis

ICP interference check sample analysis data were not reviewed for Tier 1.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

XIV. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Manganese - Data Qualification Summary - SDG IQC1612

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Manganese - Laboratory Blank Data Qualification Summary - SDG IQC1612

No Sample Data Qualified in this SDG

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---------------------------|--------------------|----------------|--------------------|------------------|--------------------|---------------------|---------------------|--------------------|
| Sample ID: IQC1612-05 (MWB013_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C14164 | N/A | 0.020 | ND | 1 | 03/14/07 | 03/15/07 | |
| Sample ID: IQC1612-10 (MWC021_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C14164 | N/A | 0.020 | 0.030 | 1 | 03/14/07 | 03/15/07 | |
| Sample ID: IQC1612-11 (TMW_10_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C14164 | N/A | 0.020 | ND | 1 | 03/14/07 | 03/15/07 | |
| Sample ID: IQC1612-12 (TMW_15_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C14164 | N/A | 0.020 | ND | 1 | 03/14/07 | 03/15/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

2051007

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IQC1612 <Page 26 of 51>

BOE-C6-0054561

LDC #: 16739A4
SDG #: IQC1612
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET EPA Region 1 - Tier 1

Date: 5/10/07
Page: 1 of 1
Reviewer: W
2nd Reviewer: A

METHOD: Manganese (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/14/07 |
| II. | Calibration | N | |
| III. | Blanks | A | PB |
| IV. | ICP Interference Check Sample (ICS) Analysis | N | |
| V. | Matrix Spike Analysis | A | 3 MS / MSD |
| VI. | Duplicate Sample Analysis | N | |
| VII. | Laboratory Control Samples (LCS) | A | LCS |
| VIII. | Internal Standard (ICP-MS) | N | not utilized |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | not performed |
| XI. | Sample Result Verification | N | |
| XII. | Overall Assessment of Data | A | |
| XIII. | Field Duplicates | N | |
| XIV. | Field Blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

| | | | | | | | |
|----|-------------------------|----|--|----|--|----|--|
| 1 | MWB013_WG031407_0001 | 11 | | 21 | | 31 | |
| 2 | MWC021_WG031407_0001 | 12 | | 22 | | 32 | |
| 3 | MWB013_WG031407_0001MS | 13 | | 23 | | 33 | |
| 4 | MWB013_WG031407_0001MSD | 14 | | 24 | | 34 | |
| 5 | PB | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC Report# 16739B4

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 22, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Manganese

Validation Level: Tier 2

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC2470

Sample Identification

CMW002_WG032207_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Manganese.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

XIV. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Manganese - Data Qualification Summary - SDG IQC2470

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Manganese - Laboratory Blank Data Qualification Summary - SDG IQC2470

No Sample Data Qualified in this SDG

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2470-08 (MWB003_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C23136 | 0.0070 | 0.020 | 0.31 | 1 | 03/23/07 | 03/24/07 | |
| Sample ID: IQC2470-10 (WCC06S_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C23136 | 0.0070 | 0.020 | 4.5 | 1 | 03/23/07 | 03/24/07 | |
| Sample ID: IQC2470-13 (CMW002_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C23136 | 0.0070 | 0.020 | 0.15 | 1 | 03/23/07 | 03/24/07 | |
| Sample ID: IQC2470-14 (HRZCMW002_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C23136 | 0.0070 | 0.020 | 2.8 | 1 | 03/23/07 | 03/24/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

11/25/07

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IQC2470 <Page 51 of 98>

BOE-C6-0054568

LDC #: 16739B4
 SDG #: IQC2470
 Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET EPA Region 1 - Tier 2

Date: 5/10/07
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Manganese (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/22/07 |
| II. | Calibration | A | |
| III. | Blanks | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Matrix Spike Analysis | A | was direct. |
| VI. | Duplicate Sample Analysis | N | |
| VII. | Laboratory Control Samples (LCS) | A | yes |
| VIII. | Internal Standard (ICP-MS) | N | not utilized |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | not performed |
| XI. | Sample Result Verification | N | |
| XII. | Overall Assessment of Data | A | |
| XIII. | Field Duplicates | N | |
| XIV. | Field Blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

| | | | | | | | |
|----|----------------------|----|--|----|--|----|--|
| 1 | CMW002_WG032207_0001 | 11 | | 21 | | 31 | |
| 2 | PB | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC Report# 16739C4

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 27, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Manganese

Validation Level: Tier 3

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC2895

Sample Identification

MWB019_WG032707_0001

MWB019_WG032707_0001MS

MWB019_WG032707_0001MSD

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Manganese.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standard (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

All sample result verifications were acceptable.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

XIV. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Manganese - Data Qualification Summary - SDG IQC2895

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Manganese - Laboratory Blank Data Qualification Summary - SDG IQC2895

No Sample Data Qualified in this SDG

TestAmerica

ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2895

Sampled: 03/27/07
Received: 03/27/07

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC2895-07 (MWB019_WG032707_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C28102 | 0.0070 | 0.020 | ND | 1 | 03/28/07 | 03/29/07 | |
| Sample ID: IQC2895-08 (MWC017_WG032707_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C28102 | 0.0070 | 0.020 | 0.082 | 1 | 03/28/07 | 03/29/07 | |
| Sample ID: IQC2895-09 (IRZMW005_WG032707_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Manganese | EPA 6010B-Diss | 7C28102 | 0.0070 | 0.020 | 1.6 | 1 | 03/28/07 | 03/29/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

1/5/07

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IQC2895 <Page 25 of 76>

LDC #: 16739C4
SDG #: IQC2895
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

EPA Region 1 - Tier 3

Date: 5/10/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Manganese (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/27/07 |
| II. | Calibration | A | |
| III. | Blanks | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Matrix Spike Analysis | A | 3 MS/MSD |
| VI. | Duplicate Sample Analysis | N | |
| VII. | Laboratory Control Samples (LCS) | A | LCs |
| VIII. | Internal Standard (ICP-MS) | N | not water ligand |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | not performed |
| XI. | Sample Result Verification | A | |
| XII. | Overall Assessment of Data | A | |
| XIII. | Field Duplicates | N | |
| XIV. | Field Blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

| | | | | | | | |
|----|-------------------------|----|--|----|--|----|--|
| 1 | MWB019_WG032707_0001 | 11 | | 21 | | 31 | |
| 2 | MWB019_WG032707_0001MS | 12 | | 22 | | 32 | |
| 3 | MWB019_WG032707_0001MSD | 13 | | 23 | | 33 | |
| 4 | PB | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 1673904
SDG #: TA C 2895

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: Metals (EPA SW 846 Method 6010/7000/6020)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-----|----|----|-------------------|
| I. Technical Holding Times | | | | |
| All technical holding times were met. | / | | | |
| Cooler temperature criteria was met. | / | | | |
| II. Calibration | | | | |
| Were all instruments calibrated daily, each set-up time? | / | | | |
| Were the proper number of standards used? | / | | | |
| Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits? | / | | | |
| Were all initial calibration correlation coefficients > 0.995? (Level IV only) | / | | | |
| III. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | / | | | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | | / | | |
| IV. QC Interference Check Samples | | | | |
| Were ICP interference check samples performed daily? | / | | | |
| Were the AB solution percent recoveries (%R) with the 80-120% QC limits? | / | | | |
| IV. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water. | / | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. | / | | | |
| Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL (+/- 2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL. | / | | | |
| V. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |
| Was an LCS analyzed per extraction batch? | / | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils? | / | | | |
| VI. Furnace Atomic Absorption QC | | | | |
| If MSA was performed, was the correlation coefficients > 0.995? | | | / | |
| Do all applicable analyses have duplicate injections? (Level IV only) | | | / | |
| For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only) | | | / | |
| Were analytical spike recoveries within the 85-115% QC limits? | | | / | |

LDC #: 16739
 SDG #: 101895

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: hmy
 2nd Reviewer: R

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| VII. ICP Serial Dilution | | | | |
| Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL? | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were all percent differences (%Ds) < 10%? | | | <input checked="" type="checkbox"/> | |
| Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data. | | | <input checked="" type="checkbox"/> | |
| VIII. Internal Standards (EPA SW-846 Method 8020) | | | | |
| Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration? | | | <input checked="" type="checkbox"/> | |
| If the %Rs were outside the criteria, was a reanalysis performed? | | | <input checked="" type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | | | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | | | <input checked="" type="checkbox"/> | |
| X. Sample Result Verification | | | | |
| Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | | | |
| XI. Dry weight assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | | | |
| XII. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | | <input checked="" type="checkbox"/> | | |
| Target analytes were detected in the field duplicates. | | | <input checked="" type="checkbox"/> | |
| XIII. Field blanks | | | | |
| Field blanks were identified in this SDG. | | <input checked="" type="checkbox"/> | | |
| Target analytes were detected in the field blanks. | | | <input checked="" type="checkbox"/> | |

LDC #: 673904
SDG #: 1022895

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where: Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

| Standard ID | Type of Analysis | Element | Found (ug/L) | True (ug/L) | Recalculated | | Reported | | Acceptable (Y/N) |
|-------------|----------------------------------|---------|--------------|-------------|--------------|-----|----------|----|------------------|
| | | | | | %R | %R | %R | %R | |
| ICV | ICP (Initial calibration) | Mn | 1.927 | 2 | | 96 | | NR | y |
| | GFAA (Initial calibration) | | | | | | | | |
| | CVAA (Initial calibration) | | | | | | | | |
| CCV | ICP (Continuing calibration) | Mn | 1.03 | 1 | | 103 | | NR | y |
| | GFAA (Continuing calibration) | | | | | | | | |
| | CVAA (Continuing calibration) | | | | | | | | |
| | Cyanide (Initial calibration) | | | | | | | | |
| | Cyanide (Continuing calibration) | | | | | | | | |

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCLC.4SW

LDC #: 1673904
SDG #: 70000000

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: jwr
2nd Reviewer: jk

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

| Sample ID | Type of Analysis | Element | Found / S / I (units) | True / D / SDR (units) | Recalculated | | Reported | | Acceptable (Y/N) |
|-----------|---------------------------|---------|-----------------------|------------------------|---------------|---------------|---------------|---------------|------------------|
| | | | | | %R / RPD / %D | %R / RPD / %D | %R / RPD / %D | %R / RPD / %D | |
| DESAB | ICP interference check | Mn | 0.4985 | 0.500 | 100 | 100 | 100 | 100 | Y |
| LC5 | Laboratory control sample | | 1.063 | 1.00 | 106 | 106 | 106 | 106 | |
| 2 | Matrix spike | | 1.059 (SSR-SR) | 1.00 | 106 | 106 | 106 | 106 | |
| 213 | Duplicate | | 1.07 | 1.059 | 1 | 1 | 1 | 1 | |
| 112 | ICP serial dilution | | | | | | | | |

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.4SW

Boeing Realty Corp., Bldg C-6 Torrance
Data Validation Reports
LDC# 16739

Wet Chemistry

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 14, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Wet Chemistry

Validation Level: Tier 1

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC1612

Sample Identification

MWB013_WG031407_0001

MWC021_WG031407_0001

MWC021_WG031407_0001MS

MWC021_WG031407_0001MSD

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Chloride, Nitrate, Nitrite, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, EPA Method 350.3 for Ammonia as Nitrogen, and EPA Method 415.1 for Total Organic Carbon.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UU Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration data were not reviewed for Tier 1.

b. Calibration Verification

Calibration verification data were not reviewed for Tier 1.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Wet Chemistry - Data Qualification Summary - SDG IQC1612

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG IQC1612

No Sample Data Qualified in this SDG

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727-01
Report Number: IQC1612

Sampled: 03/14/07
Received: 03/14/07

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1612-05 (MWB013_WG031407_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Alkalinity as CaCO ₃ | EPA 310.1 | 7C23075 | N/A | 2.0 | 150 | 1 | 03/23/07 | 03/23/07 | |
| Ammonia-N | EPA 350.3 | 7C26085 | N/A | 0.50 | ND | 1 | 03/26/07 | 03/26/07 | |
| Chloride | EPA 300.0 | 7C14053 | N/A | 25 | 300 | 50 | 03/14/07 | 03/14/07 | |
| Nitrate-NO ₃ | EPA 300.0 | 7C14053 | N/A | 25 | 60 | 50 | 03/14/07 | 03/14/07 | |
| Nitrite-NO ₂ | EPA 300.0 | 7C14053 | N/A | 0.50 | ND | 1 | 03/14/07 | 03/14/07 | |
| Orthophosphate - PO ₄ | EPA 300.0 | 7C14053 | N/A | 0.50 | ND | 1 | 03/14/07 | 03/14/07 | |
| Sulfate | EPA 300.0 | 7C14053 | N/A | 25 | 320 | 50 | 03/14/07 | 03/14/07 | |
| Total Organic Carbon | EPA 415.1 | 7C20118 | N/A | 1.0 | 2.1 | 1 | 03/20/07 | 03/20/07 | |

Sample ID: IQC1612-10 (MWC021_WG031407_0001 - Water)

Reporting Units: mg/l

| | | | | | | | | | |
|----------------------------------|-----------|---------|-----|------|-----|----|----------|----------|--|
| Alkalinity as CaCO ₃ | EPA 310.1 | 7C23075 | N/A | 2.0 | 160 | 1 | 03/23/07 | 03/23/07 | |
| Ammonia-N | EPA 350.3 | 7C26085 | N/A | 0.50 | ND | 1 | 03/26/07 | 03/26/07 | |
| Chloride | EPA 300.0 | 7C14053 | N/A | 25 | 120 | 50 | 03/14/07 | 03/14/07 | |
| Nitrate-NO ₃ | EPA 300.0 | 7C14053 | N/A | 0.50 | 9.9 | 1 | 03/14/07 | 03/14/07 | |
| Nitrite-NO ₂ | EPA 300.0 | 7C14053 | N/A | 0.50 | ND | 1 | 03/14/07 | 03/14/07 | |
| Orthophosphate - PO ₄ | EPA 300.0 | 7C14053 | N/A | 0.50 | ND | 1 | 03/14/07 | 03/14/07 | |
| Sulfate | EPA 300.0 | 7C14053 | N/A | 0.50 | 57 | 1 | 03/14/07 | 03/14/07 | |
| Total Organic Carbon | EPA 415.1 | 7C20118 | N/A | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |

Sample ID: IQC1612-11 (TMW_10_WG031407_0001 - Water)

Reporting Units: mg/l

| | | | | | | | | | |
|----------------------------------|-----------|---------|-----|------|-----|----|----------|----------|--|
| Alkalinity as CaCO ₃ | EPA 310.1 | 7C23075 | N/A | 2.0 | 280 | 1 | 03/23/07 | 03/23/07 | |
| Ammonia-N | EPA 350.3 | 7C26085 | N/A | 0.50 | ND | 1 | 03/26/07 | 03/26/07 | |
| Chloride | EPA 300.0 | 7C14053 | N/A | 25 | 560 | 50 | 03/14/07 | 03/14/07 | |
| Nitrate-NO ₃ | EPA 300.0 | 7C14053 | N/A | 25 | 61 | 50 | 03/14/07 | 03/14/07 | |
| Nitrite-NO ₂ | EPA 300.0 | 7C14053 | N/A | 0.50 | ND | 1 | 03/14/07 | 03/14/07 | |
| Orthophosphate - PO ₄ | EPA 300.0 | 7C14053 | N/A | 0.50 | 6.4 | 1 | 03/14/07 | 03/14/07 | |
| Sulfate | EPA 300.0 | 7C14053 | N/A | 0.50 | 48 | 1 | 03/14/07 | 03/14/07 | |
| Total Organic Carbon | EPA 415.1 | 7C20118 | N/A | 1.0 | 1.8 | 1 | 03/20/07 | 03/20/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

6/25/07

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IQC1612 <Page 27 of 51>

BOE-C6-0054588

LDC #: 16739A6
SDG #: IQC1612
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET **EPA Region 1 - Tier 1**

Date: 5/10/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Alkalinity (EPA Method 310.1), Ammonia-N (EPA Method 350.3), Chloride, Nitrate-N, Nitrite-N, Sulfate, Orthophosphate-P (EPA Method 300.0), TOC (EPA Method 415.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/14/07 |
| IIa. | Initial calibration | N | |
| IIb. | Calibration verification | N | |
| III. | Blanks | A | MB |
| IVa. | Matrix Spike/(Matrix Spike) Duplicates | A | MS/MSD / dup |
| IVb. | Laboratory control samples | A | LC |
| V. | Sample result verification | N | |
| VI. | Overall assessment of data | A | |
| VII. | Field duplicates | N | |
| VIII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

A2

| | | | | | | | |
|----|-------------------------|----|--|----|--|----|--|
| 1 | MWB013_WG031407_0001 | 11 | | 21 | | 31 | |
| 2 | MWC021_WG031407_0001 | 12 | | 22 | | 32 | |
| 3 | MWC021_WG031407_0001MS | 13 | | 23 | | 33 | |
| 4 | MWC021_WG031407_0001MSD | 14 | | 24 | | 34 | |
| 5 | MB | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 16739 AB
 SDG #: CU con

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Page: 1 of 1
 Reviewer: W
 2nd reviewer: _____

All circled methods are applicable to each sample.

| Sample ID | Parameter |
|--------------|--|
| 1.2 | pH TDS <u>Cl</u> F <u>NO₃</u> <u>NO₂</u> <u>SO₄</u> <u>PO₄</u> <u>ALK</u> CN <u>NH₃</u> TKN <u>TOC</u> CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| <u>m 3.4</u> | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN <u>NH₃</u> <u>TKN</u> <u>TOC</u> CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |
| | pH TDS Cl F NO ₃ NO ₂ SO ₄ PO ₄ ALK CN NH ₃ TKN TOC CR ⁶⁺ _____ |

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 22, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Wet Chemistry

Validation Level: Tier 1 & 2

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC2470

Sample Identification

CMW001_WG032207_0001

CMW002_WG032207_0001**

CMW001_WG032207_0001MS

CMW001_WG032207_0001MSD

**Indicates sample underwent Tier 2 review

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Chloride, Nitrate, Nitrite, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, EPA Method 350.3 for Ammonia as Nitrogen, EPA Method 376.2 for Sulfide, and EPA Method 415.1 for Total Organic Carbon.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Samples indicated by a double asterisk on the front cover underwent a Tier 2 review. A Tier 1 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 1 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UU Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

Initial calibration data were not reviewed for Tier 1.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

Calibration verification data were not reviewed for Tier 1.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Wet Chemistry - Data Qualification Summary - SDG IQC2470

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG IQC2470

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2470

Sampled: 03/22/07
Received: 03/22/07

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2470-08 (MWB003_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Alkalinity as CaCO ₃ | EPA 310.1 | 7D02058 | 2.0 | 2.0 | 340 | 1 | 04/02/07 | 04/02/07 | |
| Ammonia-N | EPA 350.3 | 7D03070 | 0.070 | 0.50 | 0.089 | 1 | 04/03/07 | 04/03/07 | J |
| Chloride | EPA 300.0 | 7C23041 | 5.0 | 25 | 460 | 50 | 03/23/07 | 03/24/07 | |
| Nitrate-NO ₃ | EPA 300.0 | 7C22150 | 0.25 | 0.50 | 8.4 | 1 | 03/22/07 | 03/23/07 | |
| Nitrite-NO ₂ | EPA 300.0 | 7C22150 | 3.0 | 5.0 | ND | 10 | 03/22/07 | 03/23/07 | RL1 |
| Orthophosphate - PO ₄ | EPA 300.0 | 7C22150 | 0.40 | 0.50 | ND | 1 | 03/22/07 | 03/23/07 | |
| Sulfate | EPA 300.0 | 7C22150 | 0.15 | 0.50 | 32 | 1 | 03/22/07 | 03/23/07 | |
| Total Organic Carbon | EPA 415.1 | 7C29166 | 0.50 | 1.0 | 1.6 | 1 | 03/29/07 | 03/29/07 | |
| Sample ID: IQC2470-10 (WCC06S_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Alkalinity as CaCO ₃ | EPA 310.1 | 7D02058 | 2.0 | 2.0 | 340 | 1 | 04/02/07 | 04/02/07 | |
| Ammonia-N | EPA 350.3 | 7D03070 | 0.070 | 0.50 | 0.35 | 1 | 04/03/07 | 04/03/07 | J |
| Chloride | EPA 300.0 | 7C23041 | 5.0 | 25 | 520 | 50 | 03/23/07 | 03/24/07 | |
| Nitrate-NO ₃ | EPA 300.0 | 7C22150 | 0.25 | 0.50 | 2.9 | 1 | 03/22/07 | 03/23/07 | |
| Nitrite-NO ₂ | EPA 300.0 | 7C22150 | 3.0 | 5.0 | ND | 10 | 03/22/07 | 03/23/07 | RL1 |
| Orthophosphate - PO ₄ | EPA 300.0 | 7C22150 | 0.40 | 0.50 | ND | 1 | 03/22/07 | 03/23/07 | |
| Sulfate | EPA 300.0 | 7C22150 | 0.15 | 0.50 | 18 | 1 | 03/22/07 | 03/23/07 | |
| Total Organic Carbon | EPA 415.1 | 7C29166 | 0.50 | 1.0 | 5.2 | 1 | 03/29/07 | 03/29/07 | |
| Sample ID: IQC2470-11 (CMW001_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Sulfide | EPA 376.2 | 7C27124 | 0.010 | 0.10 | 0.032 | 1 | 03/27/07 | 03/27/07 | J |
| Sample ID: IQC2470-13 (CMW002_WG032207_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Alkalinity as CaCO ₃ | EPA 310.1 | 7D02058 | 2.0 | 2.0 | ND | 1 | 04/02/07 | 04/02/07 | |
| Ammonia-N | EPA 350.3 | 7D03070 | 0.070 | 0.50 | 0.17 | 1 | 04/03/07 | 04/03/07 | J |
| Chloride | EPA 300.0 | 7C22150 | 1.0 | 5.0 | 120 | 10 | 03/22/07 | 03/23/07 | |
| Nitrate-NO ₃ | EPA 300.0 | 7C22150 | 0.25 | 0.50 | ND | 1 | 03/22/07 | 03/23/07 | |
| Nitrite-NO ₂ | EPA 300.0 | 7C22150 | 3.0 | 5.0 | ND | 10 | 03/22/07 | 03/23/07 | RL1 |
| Orthophosphate - PO ₄ | EPA 300.0 | 7C22150 | 0.40 | 0.50 | ND | 1 | 03/22/07 | 03/23/07 | |
| Sulfate | EPA 300.0 | 7C22150 | 1.5 | 5.0 | 98 | 10 | 03/22/07 | 03/23/07 | |
| Sulfide | EPA 376.2 | 7C27124 | 0.010 | 0.10 | 0.081 | 1 | 03/27/07 | 03/27/07 | J |
| Total Organic Carbon | EPA 415.1 | 7C29166 | 0.50 | 1.0 | 14 | 1 | 03/29/07 | 03/29/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

11/1/07

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IQC2470 <Page 52 of 98>

LDC #: 16739B6
 SDG #: IQC2470
 Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

EPA Region 1 - Tier 1/2

Date: 5/10/07
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Alkalinity (EPA Method 310.1), Ammonia-N (EPA Method 350.3), Chloride, Nitrate, Nitrite, Sulfate, Orthophosphate, Sulfide (EPA Method 376.2), TOC (EPA Method 415.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------------------|
| I. | Technical holding times | A | Sampling dates: 3/22/07 |
| IIa. | Initial calibration | A | Not reviewed for Tier I validation. |
| IIb. | Calibration verification | A | Not reviewed for Tier I validation. |
| III. | Blanks | A | |
| IVa. | Matrix Spike/(Matrix Spike) Duplicates | A | 1mg/1000mg |
| IVb. | Laboratory control samples | A | LC5 |
| V. | Sample result verification | N | |
| VI. | Overall assessment of data | A | |
| VII. | Field duplicates | N | |
| VIII. | Field blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: * Indicates sample underwent Tier I validation

| | | | | | | | |
|----|-------------------------|----|--|----|--|----|--|
| 1 | CMW001_WG032207_0001* | 11 | | 21 | | 31 | |
| 2 | CMW002_WG032207_0001** | 12 | | 22 | | 32 | |
| 3 | CMW001_WG032207_0001MS | 13 | | 23 | | 33 | |
| 4 | CMW001_WG032207_0001MSD | 14 | | 24 | | 34 | |
| 5 | MB | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 27, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Wet Chemistry

Validation Level: Tier 3

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): IQC2895

Sample Identification

MWB019_WG032707_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Chloride, Nitrate, Nitrite, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, EPA Method 350.3 for Ammonia as Nitrogen, EPA Method 376.2 for Sulfide, and EPA Method 415.1 for Total Organic Carbon.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UU Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of this method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for this method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

| Method Blank ID | Analyte | Concentration | Associated Samples |
|-----------------|--------------------------------|---------------------------|----------------------------|
| MB | Ammonia as N | 0.0783 mg/L | All samples in SDG IQC2895 |
| ICB/CCB | Ammonia as N Orthophosphate | 0.1038 mg/L 0.436 mg/L | All samples in SDG IQC2895 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Analyte | Reported Concentration | Modified Final Concentration |
|----------------------|--------------|------------------------|------------------------------|
| MWB019_WG032707_0001 | Ammonia as N | 0.19 mg/L | 0.19U mg/L |

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Wet Chemistry - Data Qualification Summary - SDG IQC2895

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG IQC2895

| SDG | Sample | Analyte | Modified Final Concentration | A or P |
|---------|----------------------|--------------|------------------------------|--------|
| IQC2895 | MWB019_WG032707_0001 | Ammonia as N | 0.19U mg/L | A |

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IQC2895

Sampled: 03/27/07
Received: 03/27/07

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC2895-07 (MWB019_WG032707_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Alkalinity as CaCO3 | EPA 310.1 | 7D05119 | 2.0 | 2.0 | 390 | 1 | 04/05/07 | 04/05/07 | |
| Ammonia-N | EPA 350.3 | 7D09073 | 0.070 | 0.50 | 0.19 | 1 | 04/09/07 | 04/09/07 | B, J |
| Chloride | EPA 300.0 | 7C27042 | 2.0 | 10 | 290 | 20 | 03/27/07 | 03/28/07 | |
| Nitrate-NO3 | EPA 300.0 | 7C27042 | 5.0 | 10 | 110 | 20 | 03/27/07 | 03/28/07 | |
| Nitrite-NO2 | EPA 300.0 | 7C27042 | 6.0 | 10 | ND | 20 | 03/27/07 | 03/28/07 | RL1 |
| Orthophosphate - PO4 | EPA 300.0 | 7C27042 | 0.40 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Sulfate | EPA 300.0 | 7C27042 | 3.0 | 10 | 560 | 20 | 03/27/07 | 03/28/07 | |
| Sulfide | EPA 376.2 | 7D02095 | 0.010 | 0.10 | 0.026 | 1 | 04/02/07 | 04/02/07 | J |
| Total Organic Carbon | EPA 415.1 | 7D03118 | 0.50 | 1.0 | 1.5 | 1 | 04/03/07 | 04/03/07 | |

Sample ID: IQC2895-08 (MWC017_WG032707_0001 - Water)

Reporting Units: mg/l

| | | | | | | | | | |
|----------------------|-----------|---------|-------|------|-------|----|----------|----------|------|
| Alkalinity as CaCO3 | EPA 310.1 | 7D05119 | 2.0 | 2.0 | 200 | 1 | 04/05/07 | 04/05/07 | |
| Ammonia-N | EPA 350.3 | 7D09073 | 0.070 | 0.50 | 0.12 | 1 | 04/09/07 | 04/09/07 | B, J |
| Chloride | EPA 300.0 | 7C27042 | 1.0 | 5.0 | 99 | 10 | 03/27/07 | 03/28/07 | |
| Nitrate-NO3 | EPA 300.0 | 7C27042 | 0.25 | 0.50 | 11 | 1 | 03/27/07 | 03/27/07 | |
| Nitrite-NO2 | EPA 300.0 | 7C27042 | 0.30 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Orthophosphate - PO4 | EPA 300.0 | 7C27042 | 0.40 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Sulfate | EPA 300.0 | 7C27042 | 0.15 | 0.50 | 58 | 1 | 03/27/07 | 03/27/07 | |
| Sulfide | EPA 376.2 | 7D02095 | 0.010 | 0.10 | 0.023 | 1 | 04/02/07 | 04/02/07 | J |
| Total Organic Carbon | EPA 415.1 | 7D03118 | 0.50 | 1.0 | ND | 1 | 04/03/07 | 04/03/07 | |

Sample ID: IQC2895-09 (IRZMW005_WG032707_0001 - Water)

Reporting Units: mg/l

| | | | | | | | | | |
|----------------------|-----------|---------|-------|------|-----|----|----------|----------|--|
| Alkalinity as CaCO3 | EPA 310.1 | 7D05119 | 2.0 | 2.0 | 360 | 1 | 04/05/07 | 04/05/07 | |
| Ammonia-N | EPA 350.3 | 7D09073 | 0.070 | 0.50 | 3.8 | 1 | 04/09/07 | 04/09/07 | |
| Chloride | EPA 300.0 | 7C27042 | 2.0 | 10 | 290 | 20 | 03/27/07 | 03/28/07 | |
| Nitrate-NO3 | EPA 300.0 | 7C27042 | 0.25 | 0.50 | 1.5 | 1 | 03/27/07 | 03/27/07 | |
| Nitrite-NO2 | EPA 300.0 | 7C27042 | 0.30 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Orthophosphate - PO4 | EPA 300.0 | 7C27042 | 0.40 | 0.50 | ND | 1 | 03/27/07 | 03/27/07 | |
| Sulfate | EPA 300.0 | 7C27042 | 0.15 | 0.50 | 30 | 1 | 03/27/07 | 03/27/07 | |
| Sulfide | EPA 376.2 | 7D02095 | 0.20 | 2.0 | 4.1 | 20 | 04/02/07 | 04/02/07 | |
| Total Organic Carbon | EPA 415.1 | 7D03118 | 0.50 | 1.0 | 3.2 | 1 | 04/03/07 | 04/03/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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IQC2895 <Page 26 of 76>

LDC #: 16739C6
SDG #: IQC2895
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

EPA Region 1 - Tier 3

Date: 5/10/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Alkalinity (EPA Method 310.1), Ammonia-N (EPA Method 350.3), Chloride, Nitrate~~X~~, Nitrite~~X~~, Sulfate, Orthophosphate~~X~~ (EPA Method 300.0), Sulfide (EPA Method 376.2), TOC (EPA Method 415.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/29/07 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | SW | |
| IVa. | Matrix Spike/(Matrix Spike) Duplicates | A | no data MS/MSD/mp |
| IVb. | Laboratory control samples | D | LCs |
| V. | Sample result verification | A | |
| VI. | Overall assessment of data | A | |
| VII. | Field duplicates | N | |
| VIII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinstate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

| | | | | | | | |
|----|----------------------|----|--|----|--|----|--|
| 1 | MWB019_WG032707_0001 | 11 | | 21 | | 31 | |
| 2 | MB | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 1693/c6
SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: HY
2nd Reviewer: AL

Method: Inorganics (EPA Method See cover)

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| III. Technical Holding Times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IV. Calibration | | | | |
| Were all instruments calibrated daily, each set-up time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the proper number of standards used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all initial calibration correlation coefficients ≥ 0.995 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were titrant checks performed as required? (Level IV only) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were balance checks performed as required? (Level IV only) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VI. Matrix Spike, Matrix Spike Duplicates and Duplicate | | | | |
| Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (none of them) |
| Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\leq \text{CRDL}$ ($\leq 2 \times \text{CRDL}$ for soil) was used for samples that were $\leq 5 \times$ the CRDL, including when only one of the duplicate sample values were $\leq 5 \times$ the CRDL. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VII. Laboratory Control Samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was an LCS analyzed per extraction batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| VIII. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

LDC #: 16739 CB
 SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
 Reviewer: my
 2nd Reviewer: [Signature]

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-----|----|----|-------------------|
| VII. Sample Result Verification | | | | |
| Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | ✓ | | | |
| Were detection limits < RL? | ✓ | | | |
| VIII. Overall Assessment of Data | | | | |
| Overall assessment of data was found to be acceptable. | ✓ | | | |
| IX. Field Duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | | ✓ | | |
| Target analytes were detected in the field duplicates. | | | ✓ | |
| X. Field Blanks | | | | |
| Field blanks were identified in this SDG. | | ✓ | | |
| Target analytes were detected in the field blanks. | | | ✓ | |

LDC #: 673906

SDG #: 5.1 Gender

VALIDATION FINDINGS WORKSHEET

Sample Specific Analysis Reference

Page: 1 of 1

Reviewer: **WY**

2nd reviewer:

All circled methods are applicable to each sample.

[illegible]

Comments: _____

METHOD: Inorganics, Method See Cont

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

| | | |
|---|------------------------------------|-----|
| Were all samples associated with a given method blank? | <input checked="" type="radio"/> N | N/A |
| Were any inorganic contaminants detected above the reporting limit in the method blanks? If yes, please see qualifications below. | <input checked="" type="radio"/> N | N/A |

Conc. units: Wg ☒ by

[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT: All contaminants within five times the method blank concentration were qualified as not detected, "u".

BLANKS.8

LDC #: 1673906
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

| Sample ID | Type of Analysis | Element | Found / S (units) | True / D (units) | Recalculated | | Reported | | Acceptable (Y/N) |
|-------------------------------|---------------------------|--------------------------------|----------------------|---------------------|--------------|-----|----------|-----|---------------------|
| | | | | | %R / RPD | | %R / RPD | | |
| Lcs | Laboratory control sample | Pb 4 | 4.67 | 5.00 | 93 | 93 | 93 | 93 | Y |
| TPC 3933-36 ↓ TPC 18485 | Matrix spike sample | NH ₃ -N (SSR-SR) | 2.15 | 2.00 | 108 | 108 | 108 | 108 | Y |
| | Duplicate sample | 612 | 2.00 1.80 | 1.80 | 0 | 0 | 0 | 0 | Y |

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC6

LDC #: 16739 cb
SDG #: See cover

Validatin Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: Inorganics, Method [Signature]

The correlation coefficient (r) for the calibration of [Signature] was recalculated. Calibration date: 3/25/07

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = $\frac{\text{Found} - \text{True}}{\text{True}} \times 100$
Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

| Type of analysis | Analyte | Standard | conc. Mg/L | Area | Recalculated | | Reported | | Acceptable (Y/N) |
|---|-------------|----------|------------|------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | | r or r ² | r or r ² | r or r ² | r or r ² | |
| Initial calibration Calibration verification | Cl | s1 | 0 | 7197.84 | 0.999986 | 0.999986 | 0.999986 | 0.999986 | Y |
| | | s2 | 0.2 | 21609.41 | | | | | |
| | | s3 | 0.5 | 57145.97 | | | | | |
| | | s4 | 5 | 589558.07 | | | | | |
| | | s5 | 10 | 1264022.24 | | | | | |
| | | s6 | 20 | 2754745.98 | | | | | |
| | | s7 | 30 | 4466513.23 | | | | | |
| Calibration verification [Signature] | [Signature] | 10 | 0.28 | | 0.93 | | 0.93 | 0.93 | Y |
| Calibration verification [Signature] | [Signature] | 100 | 0.82 | | 0.98 | | 0.98 | 0.98 | Y |
| Calibration verification [Signature] | [Signature] | 0.342 | 0.347 | | 0.91 | | 0.91 | 0.91 | Y |

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

SDG #: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

Sample Calculation Verification

2nd reviewer:

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Are all detection limits below the CRQL?

Compound (analyte) results for _____ reported with a positive detect were recalculated and verified using the following equation:

Recalculation:

$$T_{oc} = \frac{554 - 96.918}{312.24} = 1.464 \text{ wgl}$$

[illegible]

Note: _____

Boeing Realty Corp., Bldg C-6 Torrance
Data Validation Reports
LDC# 16739

Dissolved Gases

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance
Collection Date: March 14, 2007
LDC Report Date: May 10, 2007
Matrix: Water
Parameters: Dissolved Gases
Validation Level: Tier 1
Laboratory: TestAmerica/Air Technology Laboratories, Inc.
Sample Delivery Group (SDG): IQC1612/A7031508

Sample Identification

MWB013_WG031407_0001
MWC021_WG031407_0001

Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method RSK-175 for Dissolved Gases.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration data were not reviewed for Tier 1.

b. Calibration Verification

Calibration verification data were not reviewed for Tier 1.

III. Blanks

Method blanks were performed at the required frequency. No dissolved gas contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Not required by the method.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Dissolved Gases - Data Qualification Summary - SDG IQC1612/A7031508

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Dissolved Gases - Laboratory Blank Data Qualification Summary - SDG
IQC1612/A7031508

No Sample Data Qualified in this SDG

Client: TestAmerica
Attn: Nicholas Marz

Page 2 of 3
A7031404

Client's Project: IQC1612
Date Received: 3/15/2007
Matrix: Water
Units: ug/L

| Dissolved Gases by EPA Procedure RSKSOP-175 | | | | | | | | | | |
|---|-------------|-------------|-------------|-------------|---------|-------|---------|-------|---------|--|
| MW B013 MW C021 - W G631407-0001 | | | | | | | | | | |
| Lab No.: | A7031508-01 | A7031508-02 | A7031508-03 | A7031508-04 | | | | | | |
| Client Sample I.D.: | IQC1612-05 | IQC1612-10 | IQC1612-11 | IQC1612-12 | | | | | | |
| Date Sampled: | 3/14/2007 | 3/14/2007 | 3/14/2007 | 3/14/2007 | | | | | | |
| Date Analyzed: | 3/20/2007 | 3/20/2007 | 3/20/2007 | 3/20/2007 | | | | | | |
| Analyst Initials: | DT | DT | DT | DT | | | | | | |
| Data File: | 20mar018 | 20mar019 | 20mar020 | 20mar021 | | | | | | |
| QC Batch: | 070320GC8A1 | 070320GC8A1 | 070320GC8A1 | 070320GC8A1 | | | | | | |
| Dilution Factor: | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | |
| ANALYTE | PQL | RL | Results | RL | Results | RL | Results | RL | Results | |
| Methane | 1.0 | 1.0 | 2.3 | 1.0 | 67 | 1.0 | 13 | 1.0 | 12 | |
| Ethane | 2.0 | 2.0 | ND | 2.0 | ND | 2.0 | ND | 2.0 | ND | |
| Ethylene | 3.0 | 3.0 | ND | 3.0 | ND | 3.0 | ND | 3.0 | ND | |
| Carbon Dioxide | 200 | 200 | 8,500 | 200 | 13,000 | 200 | 53,000 | 200 | 28,000 | |
| Nitrogen | 1,500 | 1,500 | 94,000 | 1,500 | 94,000 | 1,500 | 90,000 | 1,500 | 91,000 | |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:

Mark J. Johnson
Operations Manager

Date:

3-27-07

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

BOE-C6-0054619

LDC #: 16739A51 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: IQC1612/A7031508

Tier 1

Laboratory: ~~Del Mar Analytical~~ Air Technology Laboratory, Inc.

Date: 5/10/07

Page: 1 of 1

Reviewer: *[Signature]*2nd Reviewer: *[Signature]***METHOD:** GC Dissolved Gases (Method RSK-175)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/14/07 |
| IIa. | Initial calibration | N | |
| IIb. | Calibration verification | N | |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | N | not required |
| IVb. | Matrix spike/Matrix spike duplicates | N | chem specified |
| IVc. | Laboratory control samples | A | res ID |
| V. | Target compound identification | N | |
| VI. | Compound Quantitation and CRQLs | N | |
| VII. | System Performance | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | N | |
| X. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: *water*

| | | | | | | | | |
|----|---|----------------------|----|--------------|----|--|----|--|
| 1 | 1 | MWB013_WG031407_0001 | 11 | MB - 3/20/07 | 21 | | 31 | |
| 2 | 2 | MWC021_WG031407_0001 | 12 | | 22 | | 32 | |
| 3 | | | 13 | | 23 | | 33 | |
| 4 | | | 14 | | 24 | | 34 | |
| 5 | | | 15 | | 25 | | 35 | |
| 6 | | | 16 | | 26 | | 36 | |
| 7 | | | 17 | | 27 | | 37 | |
| 8 | | | 18 | | 28 | | 38 | |
| 9 | | | 19 | | 29 | | 39 | |
| 10 | | | 20 | | 30 | | 40 | |

Notes: _____

LDC Report# 16739B51

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance
Collection Date: March 22, 2007
LDC Report Date: May 10, 2007
Matrix: Water
Parameters: Dissolved Gases
Validation Level: Tier 2
Laboratory: TestAmerica/Air Technology Laboratory, Inc.
Sample Delivery Group (SDG): IQC2470/A7032601
Sample Identification
CMW002_WG032207_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method RSK-175 for Dissolved Gases.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UU Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 25.0% QC limits.

III. Blanks

Method blanks were performed at the required frequency. No dissolved gas contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Not required by the method.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Dissolved Gases - Data Qualification Summary - SDG IQC2470/A7032601

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Dissolved Gases - Laboratory Blank Data Qualification Summary - SDG
IQC2470/A7032601

No Sample Data Qualified in this SDG

Client: TestAmerica
Attn: Nicholas Marz

Page 2 of 3
A7032601

Client's Project: IQC2470
Date Received: 3/23/2007
Matrix: Water
Units: ug/L

| Dissolved Gases by EPA Procedure RSKSOP-175 | | | | | | | | | | |
|---|-------------|-------------|-------------|-------------|---------|-------|---------|-------|---------|--|
| CMW002-W/Gb32207-000 | | | | | | | | | | |
| Lab No.: | A7032601-01 | A7032601-02 | A7032601-03 | A7032601-04 | | | | | | |
| Client Sample I.D.: | IQC2470-08 | IQC2470-10 | IQC2470-13 | IQC2470-14 | | | | | | |
| Date Sampled: | 3/22/2007 | 3/22/2007 | 3/22/2007 | 3/22/2007 | | | | | | |
| Date Analyzed: | 3/27/2007 | 3/27/2007 | 3/27/2007 | 3/27/2007 | | | | | | |
| Analyst Initials: | DT | DT | DT | DT | | | | | | |
| Data File: | 27mar012 | 27mar013 | 27mar014 | 27mar015 | | | | | | |
| QC Batch: | 070327GCBA1 | 070327GCBA1 | 070327GCBA1 | 070327GCBA1 | | | | | | |
| Dilution Factor: | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | |
| ANALYTE | PQL | RL | Results | RL | Results | RL | Results | RL | Results | |
| Methane | 1.0 | 1.0 | 8.8 | 1.0 | 3.4 | 1.0 | 1.8 | 1.0 | 17,000 | |
| Ethane | 2.0 | 2.0 | ND | 2.0 | ND | 2.0 | ND | 2.0 | ND | |
| Ethylene | 3.0 | 3.0 | ND | 3.0 | ND | 3.0 | 5.9 | 3.0 | 12 | |
| Carbon Dioxide | 200 | 200 | 50,000 | 200 | 92,000 | 200 | 13,000 | 200 | 210,000 | |
| Nitrogen | 1,500 | 1,500 | 110,000 | 1,500 | 110,000 | 1,500 | 110,000 | 1,500 | 81,000 | |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: _____

Mark J. Johnson
Operations Manager

Date: 4/2/07

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 • City of Industry, CA 91748 • Ph: (626) 964-4032 • Fx: (626) 964-5832

LDC #: 16739B51 **VALIDATION COMPLETENESS WORKSHEET**
SDG #: IQC2470/A7032601 Tier 2
Laboratory: ~~Del Mar Analytical~~ Air Technology Laboratory, Inc.
Test America
METHOD: GC Dissolved Gases (Method RSK-175)

Date: 5/10/07
Page: 1 of 1
Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/22/07 |
| IIa. | Initial calibration | Δ | $r^2 = 20.990$ |
| IIb. | Calibration verification | Δ | % D ≤ 25 |
| III. | Blanks | Δ | |
| IVa. | Surrogate recovery | N | not Required |
| IVb. | Matrix spike/Matrix spike duplicates | N | client specified |
| IVc. | Laboratory control samples | A | LCs ID |
| V. | Target compound identification | N | |
| VI. | Compound Quantitation and CRQLs | N | |
| VII. | System Performance | N | |
| VIII. | Overall assessment of data | Δ | |
| IX. | Field duplicates | N | |
| X. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Water

| | | | | | | | |
|----|----------------------|----|--------------|----|--|----|--|
| 1 | CMW002_WG032207_0001 | 11 | MB - 3/27/07 | 21 | | 31 | |
| 2 | | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6 Torrance

Collection Date: March 27, 2007

LDC Report Date: May 10, 2007

Matrix: Water

Parameters: Dissolved Gases

Validation Level: Tier 3

Laboratory: TestAmerica/Air Technology Laboratory, Inc.

Sample Delivery Group (SDG): IQC2895/A7032807

Sample Identification

MWB019_WG032707_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method RSK-175 for Dissolved Gases.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 25.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No dissolved gas contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were not required by the method.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

All target compound identifications were within validation criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

VII. System Performance

The system performance was acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6 Torrance
Dissolved Gases - Data Qualification Summary - SDG IQC2895/A7032807

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6 Torrance
Dissolved Gases - Laboratory Blank Data Qualification Summary - SDG
IQC2895/A7032807

No Sample Data Qualified in this SDG

Client: TestAmerica
Attn: Nicholas Marz

Page 2 of 3
A7032807

Client's Project: IQC2895
Date Received: 3/28/2007
Matrix: Water
Units: ug/L

| Dissolved Gases by EPA Procedure RSKSOP-175 | | | | | | | | | |
|---|-------------|-------------|-------------|-------|---------|-------|---------|--|--|
| MW B019 - W032707-009 | | | | | | | | | |
| Lab No.: | A7032807-01 | A7032807-02 | A7032807-03 | | | | | | |
| Client Sample I.D.: | IQC2895-07 | IQC2895-08 | IQC2895-09 | | | | | | |
| Date Sampled: | 3/27/2007 | 3/27/2007 | 3/27/2007 | | | | | | |
| Date Analyzed: | 4/2/2007 | 4/2/2007 | 4/2/2007 | | | | | | |
| Analyst Initials: | DT | DT | DT | | | | | | |
| Data File: | 02apr009 | 02apr010 | 02apr011 | | | | | | |
| QC Batch: | 070402GC8A1 | 070402GC8A1 | 070402GC8A1 | | | | | | |
| Dilution Factor: | 1.0 | 1.0 | 1.0 | | | | | | |
| ANALYTE | PQL | RL | Results | RL | Results | RL | Results | | |
| Methane | 1.0 | 1.0 | ND | 1.0 | 10,000 | 1.0 | 3.5 | | |
| Ethane | 2.0 | 2.0 | ND | 2.0 | ND | 2.0 | ND | | |
| Ethylene | 3.0 | 3.0 | ND | 3.0 | 14 | 3.0 | ND | | |
| Carbon Dioxide | 200 | 200 | 78,000 | 200 | 83,000 | 200 | 11,000 | | |
| Nitrogen | 1,500 | 1,500 | 110,000 | 1,500 | 100,000 | 1,500 | 110,000 | | |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By: _____

Mark J. Johnson
Operations Manager

Date: _____

4/6/07

The cover letter is an integral part of this analytical report.



AIRTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LDC #: 16739C51 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: IQC2895/A7032807

Tier 3

Laboratory: ~~Del Mar Analytical~~/Air Technology Laboratory, Inc.

Date: 5/10/07

Page: 1 of 1

Reviewer: *JB*2nd Reviewer: *h***METHOD:** GC Dissolved Gases (Method RSK-175)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|----------|-------------------------|
| I. | Technical holding times | Δ | Sampling dates: 3/27/07 |
| IIa. | Initial calibration | Δ | $r^2 = 20.990$ |
| IIb. | Calibration verification | Δ | % D = 25 |
| III. | Blanks | Δ | |
| IVa. | Surrogate recovery | N | not Required |
| IVb. | Matrix spike/Matrix spike duplicates | N | client specified |
| IVc. | Laboratory control samples | A | res ID |
| V. | Target compound identification | Δ | |
| VI. | Compound Quantitation and CRQLs | Δ | |
| VII. | System Performance | Δ | |
| VIII. | Overall assessment of data | Δ | |
| IX. | Field duplicates | N | |
| X. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

| | | | | | | | |
|----|----------------------|----|-------------|----|--|----|--|
| 1 | MWB019_WG032707_0001 | 11 | MB - 4/2/07 | 21 | | 31 | |
| 2 | | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 16739CS1
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: P
2nd Reviewer: A

Method: GC HPLC

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| II. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did the initial calibration meet the curve fit acceptance criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the RT windows properly established? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| III. Continuing calibration | | | | |
| What type of continuing calibration calculation was performed? ____ %D or ____ %R | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a continuing calibration analyzed daily? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) < 15% [✓] or percent recoveries 85-115%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all the retention times within the acceptance windows? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IV. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a method blank analyzed for each matrix and concentration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| V. Surrogate spikes | | | | |
| Were all surrogate %R within the QC limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VI. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was an LCS analyzed per extraction batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

LDC #: 16739C51
SDG #: set cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| X. Target compound identification | | | | |
| Were the retention times of reported detects within the RT windows? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Compound quantitation/CRQLs | | | | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. System performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIV. Field duplicates | | | | |
| Were field duplicate pairs identified in this SDG? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were target compounds detected in the field duplicates? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XV. Field blanks | | | | |
| Were field blanks identified in this SDG? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were target compounds detected in the field blanks? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

LDC # 16739251
SDG# per cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Carbon Dioxide (Method RSK-175)

Parameter: ~~Methane~~ Carbon Dioxide

Order of regression: 1

| Date | Column/Detector | Compound | X Mass (ppmV) | Y Area |
|------------|------------------|----------|---------------------|-----------|
| 05/24/2007 | TCD Front | CO2 | 100 | 552 |
| | | | 1000 | 3718 |
| | | | 5000 | 18595 |
| | | | 10000 | 40200 |
| | | | 100000 | 428338 |
| | | | 500000 | 1987935.0 |

| Regression Output: | | | |
|---------------------|--------------|------------------|--------------|
| Constant | 0.0 | Constant | 0.0 |
| Std Err of Y Est | 13500.069 | | |
| R Squared | 0.99971 | R Squared | 0.999749 |
| No. of Observations | 6.000 | | |
| Degrees of Freedom | 5.000 | | |
| X Coefficient(s) | 3.98768E+000 | X Coefficient(s) | 3.98770E+000 |
| Std Err of Coef. | 0.03 | | |

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

LDC #: 1673951
SDG #:

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

| # | Standard ID | Calibration Date | Compound | Average CF (cal)/ CCV Conc. | Reported | | Recalculated | |
|---|-------------|------------------|----------|--------------------------------|-----------------|------|-----------------|------|
| | | | | | CF/Conc. CCV | %R | CF/Conc. CCV | %D |
| 1 | cen 9:09 | 4/2/07 | cor | 10000 | 12151 | 21.5 | 12151 | 21.5 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SSC - SC) / SA)$
Where: SSC = Spiked sample concentration
SA = Spike added
SC = Sample concentration

RPD = $((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD) * 100$
LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 16139CS 16139CS

| Compound | Spike Added (ppm) | | Sample Conc. (ppm) | Spike Sample Concentration (ppm) | | LCS | | Percent Recovery | | LCSD | | LCS/LCSD | |
|------------------------------|----------------------|------|-----------------------|-------------------------------------|--------|----------|---------|------------------|---------|----------|---------|----------|---------|
| | LCS | LCSD | | LCS | LCSD | Reported | Recalc. | Reported | Recalc. | Reported | Recalc. | Reported | Recalc. |
| Gasoline (8015) | | | | | | | | | | | | | |
| Diesel (8015) | | | | | | | | | | | | | |
| Benzene (8021B) | | | | | | | | | | | | | |
| Methane (RSK-175) | 7000 | 7000 | 0 | 7404.3 | 6375.8 | 108 | 108 | 92 | 91.1 | 16 | 16 | | |
| 2,4-D (8151) | | | | | | | | | | | | | |
| Dinoseb (8151) | | | | | | | | | | | | | |
| Naphthalene (8310) | | | | | | | | | | | | | |
| Anthracene (8310) | | | | | | | | | | | | | |
| HMX (8330) | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene (8330) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: B
2nd Reviewer: A

LDC #: 16739cs1
SDG #: per covered

METHOD: GC HPLC

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds agree within 10% of the reported results?

Y N N/A
Y N N/A

Concentration = $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$
Example:
Sample ID: #1 Compound Name: CO2
Concentration =

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

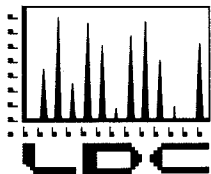
$$y = mx$$

$$183283 = (3.9877)(x)$$

$$x = 45962.258 = 0.04596 \text{ ppm}$$

| # | Sample ID | Compound | Reported Concentrations | Recalculated Results Concentrations | Qualifications |
|---|-----------|------------------------------|---------------------------------------|-------------------------------------|----------------|
| | | gas in H2S = 0.04596 | (55.51)(44)(1000) 1640 | = 68.44 | |
| | | gas in liquid = 0.04596 | (44)(4)(1000)(273) (22.4)(36)(298) | = 9.18 mg/L | |
| | | TOTAL = (68.44 + 9.18)(1600) | | = 78,000 ug/L | |

Comments:



LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Tait Environmental Management, Inc.
701 N. Park Center Drive
Santa Ana, CA 92705
ATTN: Mr. Matt Hillman

May 1, 2007

SUBJECT: Boeing Realty Corp. Bldg C-1 Long Beach, Data Validation

Dear Mr. Hillman,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on April 9, 2007. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 16591:

SDG #

Fraction

IQC0980, IQC1776

Volatiles, Semivolatiles, TPH as Extractables,
Hexavalent Chromium

The data validation was performed under Tier 1, Tier 2 and Tier 3 guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Project Manager/Senior Chemist

LDC #16591 (Tait Environmental Management, Inc. / Boeing Realty Corp., Bldg C-1 Long Beach)

[illegible]

Shaded cells indicate Tier III validation (all other cells are Tier II validation). Sample counts do not include MS, MSD, or DUP's.

**Boeing Realty Corp., Bldg C-1 Long Beach
Data Validation Reports
LDC# 16591**

Volatiles

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-1 Long Beach

Collection Date: March 15, 2007

LDC Report Date: April 30, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 3

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC1776

Sample Identification

MW3017_WG031507_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

| Date | Compound | RRF (Limits) | Associated Samples | Flag | A or P |
|---------|------------|-----------------------|----------------------------|---|--------|
| 2/28/07 | 2-Butanone | 0.037 (≥ 0.05) | All samples in SDG IQC1776 | J (all detects) UJ (all non-detects) | A |

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

| Date | Compound | RRF (Limits) | Associated Samples | Flag | A or P |
|---------|------------|-----------------------|----------------------------|---|--------|
| 3/20/07 | 2-Butanone | 0.040 (≥ 0.05) | All samples in SDG IQC1776 | J (all detects) UJ (all non-detects) | A |

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Analysis Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|---------------|---------------------------------|---------------|----------------------------|
| 7C20023-BLK1 | 3/20/07 | Tetrahydrofuran | 8.39 ug/L | All samples in SDG IQC1776 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater ($>10X$ for common contaminants, $>5X$ for other contaminants) than the concentrations found in the associated method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| LCS ID | Compound | %R (Limits) | Associated Samples | Flag | A or P |
|-------------|--------------------------|------------------------------|-------------------------------|------------------------------------|--------|
| 7C20023-BS1 | 2-Butanone 2-Hexanone | 160 (40-140) 151 (45-140) | All samples in SDG IQC1776 | J (all detects) J (all detects) | P |

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-1 Long Beach
Volatiles - Data Qualification Summary - SDG IQC1776

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------|----------------------|--------------------------|---|--------|---------------------------------|
| IQC1776 | MW3017_WG031507_0001 | 2-Butanone | J (all detects) UJ (all non-detects) | A | Initial calibration (RRF) |
| IQC1776 | MW3017_WG031507_0001 | 2-Butanone | J (all detects) UJ (all non-detects) | A | Continuing calibration (RRF) |
| IQC1776 | MW3017_WG031507_0001 | 2-Butanone 2-Hexanone | J (all detects) J (all detects) | P | Laboratory control samples (%R) |

Boeing Realty Corp., Bldg C-1 Long Beach
Volatiles - Laboratory Blank Data Qualification Summary - SDG IQC1776

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Benzene | EPA 8260B | 7C20023 | 0.28 | 1.0 | 1.1 | 1 | 03/20/07 | 03/20/07 | |
| Bromobenzene | EPA 8260B | 7C20023 | 0.27 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Bromochloromethane | EPA 8260B | 7C20023 | 0.32 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Bromodichloromethane | EPA 8260B | 7C20023 | 0.30 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Bromoform | EPA 8260B | 7C20023 | 0.40 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Bromomethane | EPA 8260B | 7C20023 | 0.42 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 2-Butanone (MEK) | EPA 8260B | 7C20023 | 3.8 | 5.0 | ND | 4.5 | 03/20/07 | 03/20/07 | L |
| n-Butylbenzene | EPA 8260B | 7C20023 | 0.37 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| sec-Butylbenzene | EPA 8260B | 7C20023 | 0.25 | 1.0 | 8.3 | 1 | 03/20/07 | 03/20/07 | |
| tert-Butylbenzene | EPA 8260B | 7C20023 | 0.22 | 1.0 | 0.89 | 1 | 03/20/07 | 03/20/07 | J |
| Carbon Disulfide | EPA 8260B | 7C20023 | 0.48 | 1.0 | 0.68 | 1 | 03/20/07 | 03/20/07 | J |
| Carbon tetrachloride | EPA 8260B | 7C20023 | 0.28 | 0.50 | ND | 1 | 03/20/07 | 03/20/07 | |
| Chlorobenzene | EPA 8260B | 7C20023 | 0.36 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Chloroethane | EPA 8260B | 7C20023 | 0.40 | 2.0 | 0.65 | 1 | 03/20/07 | 03/20/07 | J |
| Chloroform | EPA 8260B | 7C20023 | 0.33 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Chloromethane | EPA 8260B | 7C20023 | 0.40 | 2.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 2-Chlorotoluene | EPA 8260B | 7C20023 | 0.28 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 4-Chlorotoluene | EPA 8260B | 7C20023 | 0.29 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | 7C20023 | 0.97 | 2.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Dibromochloromethane | EPA 8260B | 7C20023 | 0.28 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | 7C20023 | 0.40 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,4-Dichlorobenzene | EPA 8260B | 7C20023 | 0.37 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2-Dichlorobenzene | EPA 8260B | 7C20023 | 0.32 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,3-Dichlorobenzene | EPA 8260B | 7C20023 | 0.35 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Dichlorodifluoromethane | EPA 8260B | 7C20023 | 0.79 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2-Dichloroethane | EPA 8260B | 7C20023 | 0.28 | 0.50 | 1.2 | 1 | 03/20/07 | 03/20/07 | |
| 1,1-Dichloroethane | EPA 8260B | 7C20023 | 0.27 | 1.0 | 2.6 | 1 | 03/20/07 | 03/20/07 | |
| 1,1-Dichloroethene | EPA 8260B | 7C20023 | 0.42 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| cis-1,2-Dichloroethene | EPA 8260B | 7C20023 | 0.32 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| trans-1,2-Dichloroethene | EPA 8260B | 7C20023 | 0.27 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2-Dichloropropane | EPA 8260B | 7C20023 | 0.35 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 2,2-Dichloropropane | EPA 8260B | 7C20023 | 0.34 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| cis-1,3-Dichloropropene | EPA 8260B | 7C20023 | 0.22 | 0.50 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,1-Dichloropropene | EPA 8260B | 7C20023 | 0.28 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| trans-1,3-Dichloropropene | EPA 8260B | 7C20023 | 0.32 | 0.50 | ND | 1 | 03/20/07 | 03/20/07 | |
| Ethylbenzene | EPA 8260B | 7C20023 | 0.25 | 1.0 | 9.4 | 1 | 03/20/07 | 03/20/07 | |
| Hexachlorobutadiene | EPA 8260B | 7C20023 | 0.38 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 2-Hexanone | EPA 8260B | 7C20023 | 2.6 | 6.0 | ND | 1 | 03/20/07 | 03/20/07 | L |
| Iodomethane | EPA 8260B | 7C20023 | 1.0 | 2.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Isopropylbenzene | EPA 8260B | 7C20023 | 0.25 | 1.0 | 8.8 | 1 | 03/20/07 | 03/20/07 | |
| p-Isopropyltoluene | EPA 8260B | 7C20023 | 0.28 | 1.0 | 1.6 | 1 | 03/20/07 | 03/20/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

104507

IQC1776 <Page 9 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 7C20023 | 0.32 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Methylene chloride | EPA 8260B | 7C20023 | 0.95 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | 7C20023 | 3.5 | 5.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| n-Propylbenzene | EPA 8260B | 7C20023 | 0.27 | 1.0 | 9.4 | 1 | 03/20/07 | 03/20/07 | |
| Styrene | EPA 8260B | 7C20023 | 0.16 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | 7C20023 | 0.27 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | 7C20023 | 0.24 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Tetrachloroethene | EPA 8260B | 7C20023 | 0.32 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Tetrahydrofuran (THF) | EPA 8260B | 7C20023 | 3.5 | 10 | ND | 1 | 03/20/07 | 03/20/07 | |
| Toluene | EPA 8260B | 7C20023 | 0.36 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | 7C20023 | 0.30 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | 7C20023 | 0.48 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,1,2-Trichloroethane | EPA 8260B | 7C20023 | 0.30 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,1,1-Trichloroethane | EPA 8260B | 7C20023 | 0.30 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Trichloroethene | EPA 8260B | 7C20023 | 0.26 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Trichlorofluoromethane | EPA 8260B | 7C20023 | 0.34 | 2.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2,3-Trichloropropane | EPA 8260B | 7C20023 | 0.40 | 1.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | 7C20023 | 0.23 | 1.0 | 8.3 | 1 | 03/20/07 | 03/20/07 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | 7C20023 | 0.26 | 1.0 | 2.5 | 1 | 03/20/07 | 03/20/07 | |
| Vinyl acetate | EPA 8260B | 7C20023 | 1.7 | 6.0 | ND | 1 | 03/20/07 | 03/20/07 | |
| Vinyl chloride | EPA 8260B | 7C20023 | 0.30 | 0.50 | ND | 1 | 03/20/07 | 03/20/07 | |
| Xylenes, Total | EPA 8260B | 7C20023 | 0.90 | 1.0 | 1.9 | 1 | 03/20/07 | 03/20/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 111 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 107 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 107 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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IQC1776 <Page 10 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: IQC1776-04RE1 (MW3017_WG031507_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acetone | EPA 8260B | 7C22010 | 4.5 | 10 | ND | 1 | 03/22/07 | 03/22/07 | |
| Surrogate: 4-Bromofluorobenzene (80-120%) | | | | | 100 % | | | | |
| Surrogate: Dibromofluoromethane (80-120%) | | | | | 96 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | | 98 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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03/24/07

IQC1776 <Page 11 of 37>

LDC #: 16591B1
SDG #: IQC1776
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET Tier 3

Date: 4/25/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/15/07 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | SW | % RSD, r^2 10.990 |
| IV. | Continuing calibration | SW | |
| V. | Blanks | SW | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | SW | MW3018-WG031507-0001 |
| VIII. | Laboratory control samples | SW | LC |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/CRQLs | A | |
| XIII. | Tentatively identified compounds (TICs) | N | not reported |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

water

| | | | | | | | | | | |
|----|----|-----|------------------------------------|----|---|-------------|----|--|----|--|
| 1 | 1 | 2-F | MW3017-WG031507_0001 | 11 | 1 | 7C20023-BK1 | 21 | | 31 | |
| 2 | 2 | | MW3017-WG031507_0001MS | 12 | 2 | 7C22010-BK1 | 22 | | 32 | |
| 3 | 3 | | MW3017-WG031507_0001MSD | 13 | | | 23 | | 33 | |
| 4 | 4 | | | 14 | | | 24 | | 34 | |
| 5 | 5 | | | 15 | | | 25 | | 35 | |
| 6 | 6 | | | 16 | | | 26 | | 36 | |
| 7 | 7 | | | 17 | | | 27 | | 37 | |
| 8 | 8 | | | 18 | | | 28 | | 38 | |
| 9 | 9 | | | 19 | | | 29 | | 39 | |
| 10 | 10 | | | 20 | | | 30 | | 40 | |

DC #: 16591 B)
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: BA
2nd Reviewer: BA

Method: Volatiles (EPA SW 846 Method 8260B)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-----|----|----|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | / | | | |
| Cooler temperature criteria was met. | / | | | |
| II. GC/MS instrument performance checks | | | | |
| Were the BFB performance results reviewed and found to be within the specified criteria? | / | | | |
| Were all samples analyzed within the 12 hour clock criteria? | / | | | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | / | | | |
| Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | / | | | |
| Was a curve fit used for evaluation? | / | | | |
| Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ? | / | | | |
| Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ? | | / | | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | / | | | |
| Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | / | | | |
| Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ? | | / | | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | / | | | |
| Was a method blank analyzed at least once every 12 hours for each matrix and concentration? | / | | | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | | / | | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within QC limits? | / | | | |
| If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria? | | | / | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | / | | | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | / | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | | / | | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |

DC #: 16591B1
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JS
2nd Reviewer: N

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Was an LCS analyzed per analytical batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X. Internal Standards | | | | |
| Were internal standard area counts within -50% or +100% of the associated calibration standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were retention times within + 30 seconds of the associated calibration standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Large Compound Identification | | | | |
| Were relative retention times (RRT's) within + 0.06 RRT units of the standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were chromatogram peaks verified and accounted for? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. Compound Quantitation/CRQLs | | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Variatively Identified Compounds (VICs) | | | | |
| Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were relative intensities of the major ions within + 20% between the sample and the reference spectra? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XIV. System Performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XV. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XVI. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field duplicates. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XVII. Field blanks | | | | |
| Field blanks were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field blanks. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

| | | | | |
|------------------------------|--------------------------------|---------------------------------|--|------------------------------------|
| A. Chloromethane* | S. Trichloroethane | KK. Trichlorofluoromethane | CCC. tert-Butylbenzene | UUU. 1,2-Dichlorotetrafluoroethane |
| B. Bromomethane | T. Dibromochloromethane | LL. Methyl-tert-butyl ether | DDD. 1,2,4-Trimethylbenzene | VVV. 4-Ethyltoluene |
| C. Vinyl chloride** | U. 1,1,2-Trichloroethane | MM. 1,2-Dibromo-3-chloropropane | EEE. sec-Butylbenzene | WWW. Ethanol |
| D. Chloroethane | V. Benzene | NN. Methyl ethyl ketone | FFF. 1,3-Dichlorobenzene | XXX. Di-isopropyl ether |
| E. Methylene chloride | W. trans-1,3-Dichloropropene | OO. 2,2-Dichloropropane | GGG. p-Isopropyltoluene | YYY. tert-Butanol |
| F. Acetone | X. Bromoform* | PP. Bromochloromethane | HHH. 1,4-Dichlorobenzene | ZZZ. tert-Butyl alcohol |
| G. Carbon disulfide | Y. 4-Methyl-2-pentanone | QQ. 1,1-Dichloropropane | III. n-Butylbenzene | AAA. Ethyl tert-butyl ether |
| H. 1,1-Dichloroethane** | Z. 2-Hexanone | RR. Dibromomethane | JJJ. 1,2-Dichlorobenzene | BBB. tert-Amyl methyl ether |
| I. 1,1-Dichloroethane* | AA. Tetrachloroethane | SS. 1,3-Dichloropropane | KKK. 1,2,4-Trichlorobenzene | CCC. 1-Chlorohexane |
| J. 1,2-Dichloroethane, total | BB. 1,1,2,2-Tetrachloroethane* | TT. 1,2-Dibromoethane | LLL. Hexachlorobutadiene | DDD. Isopropyl alcohol |
| K. Chloroform** | CC. Toluene** | UU. 1,1,1,2-Tetrachloroethane | MMM. Naphthalene | EEE. Acetonitrile |
| L. 1,2-Dichloroethane | DD. Chlorobenzene* | VV. Isopropylbenzene | NNN. 1,2,3-Trichlorobenzene | FFF. Acrolein |
| M. 2-Butanone | EE. Ethylbenzene** | WW. Bromobenzene | OOO. 1,3,5-Trichlorobenzene | GGG. Acrylonitrile |
| N. 1,1,1-Trichloroethane | FF. Styrene | XX. 1,2,3-Trichloropropane | PPP. trans-1,2-Dichloroethane | HHH. 1,4-Dioxane |
| O. Carbon tetrachloride | GG. Xylenes, total | YY. n-Propylbenzene | QQQ. cis-1,2-Dichloroethane | III. Isobutyl alcohol |
| P. Bromodichloromethane | HH. Vinyl acetate | ZZ. 2-Chlorotoluene | RRR. m,p-Xylenes | JJJ. Methacrylonitrile |
| Q. 1,2-Dichloropropane** | II. 2-Chloroethylvinyl ether | AAA. 1,3,5-Trimethylbenzene | SSS. o-Xylene | KKK. Propionitrile |
| R. cis-1,3-Dichloropropene | JJ. Dichlorodifluoromethane | BBB. 4-Chlorotoluene | TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane | LLL. LLL. |

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 16591B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

| | | | |
|--|---|---|-----|
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | Y | N | N/A |
| Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's? | Y | N | N/A |
| Were all %D and RRF's within the validation criteria of ≤ 25 %D and ≥ 0.05 RRF? | Y | N | N/A |

[illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A."

~~✓~~ N N/A

Was a method blank associated with every sample in this SDG?

| | | |
|---|---|-----|
| Y | N | N/A |
|---|---|-----|

Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

~~Y(N)N/A~~

Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 3/20/07

Conc. units: 4211

[illegible]

Blank analysis date:

Conc. units:

Associated Samples:

[illegible]

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Was a MS/MSD analyzed every 20 samples of each matrix?

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

| | | |
|----------|----------|------------|
| <u>Y</u> | <u>N</u> | <u>N/A</u> |
| <u>Y</u> | <u>N</u> | <u>N/A</u> |
| <u>Y</u> | <u>N</u> | <u>N/A</u> |

MSD.1SB

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

[illegible]

LDC #: 16591131
SDG #: 160176

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s)(C_i)/(A_i)(C_s)$$

average RRF = sum of the RRFs/number of standards
$$\%RSD = 100 * (S/X)$$

$$A_s = \text{Area of compound,}$$

$$C_s = \text{Concentration of compound,}$$

$$S = \text{Standard deviation of the RRFs}$$

$$X = \text{Mean of the RRFs}$$

$$A_i = \text{Area of associated internal standard}$$

$$C_i = \text{Concentration of internal standard}$$

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-------------|------------------|--|--------------|--------------|-----------------------|-----------------------|----------|--------------|
| | | | | RRF (10 std) | RRF (10 std) | Average RRF (Initial) | Average RRF (Initial) | %RSD | %RSD |
| 1 | 1CAL | 2/28/07 | Methylene chloride (1st internal standard) | 0.436 | 0.436 | 0.474 | 0.474 | 7.78 | 7.78 |
| | | | Trichlorethene (2nd internal standard) | 0.314 | 0.314 | 0.321 | 0.331 | 5.92 | 5.92 |
| | | | Toluene (3rd internal standard) | 0.269 | 0.269 | 0.281 | 0.281 | 5.18 | 5.18 |
| 2 | | | 1,2-DCB | 1.306 | 1.306 | 1.314 | 1.314 | 10.24 | 10.24 |
| | | | Methylene chloride (1st internal standard) | | | | | | |
| | | | Trichlorethene (2nd internal standard) | | | | | | |
| | | | Toluene (3rd internal standard) | | | | | | |
| 3 | 1CAL | | Methylene chloride (1st internal standard) | 0.169 | 0.169 | 0.179 | 0.179 | 22.59 | 22.59 |
| | | | Trichlorethene (2nd internal standard) | | | | | | |
| | | | Toluene (3rd internal standard) | | | | | | |
| 4 | | | Methylene chloride (1st internal standard) | | | | | | |
| | | | Trichlorethene (2nd internal standard) | | | | | | |
| | | | Toluene (3rd internal standard) | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 165911B
SDG #: for cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: PR
2nd Reviewer: PR

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
RRF = $(A_s)(C_s) / (A_u)(C_u)$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

A_s = Area of compound,

C_s = Concentration of compound,

A_u = Area of associated internal standard

C_u = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Average RRF (Initial) | Reported | | Recalculated | |
|---|----------------|------------------|---|-----------------------|----------|------|--------------|------|
| | | | | | RRF (CC) | %D | RRF (CC) | %D |
| 1 | cen 6:19PM | 3/20/07 | Methylene chloride (1st Internal standard) | 0.474 | 0.492 | 3.8 | 0.492 | 3.8 |
| | | | Trichlorethene (2nd Internal standard) | 0.331 | 0.339 | 2.4 | 0.339 | 2.4 |
| | | | Tetraachloroethene (3rd Internal standard) | 0.281 | 0.281 | 0 | 0.281 | 0 |
| | | | 1,2-DCEB | | | | | |
| 2 | | | Methylene chloride (1st Internal standard) | 1.314 | 1.334 | 1.5 | 1.334 | 1.5 |
| | | | Trichlorethene (2nd Internal standard) | | | | | |
| | | | Toluene (3rd Internal standard) | | | | | |
| | | | Acetone | | | | | |
| 3 | cen 7:10 AM | 3/22/07 | Methylene chloride (1st Internal standard) | 0.179 | 0.207 | 15.6 | 0.207 | 15.6 |
| | | | Trichlorethene (2nd Internal standard) | | | | | |
| | | | Isoctane (3rd Internal standard) | | | | | |
| | | | Acetone | | | | | |
| 4 | | | Methylene chloride (1st Internal standard) | | | | | |
| | | | Trichlorethene (2nd Internal standard) | | | | | |
| | | | Toluene (3rd Internal standard) | | | | | |
| | | | Acetone | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.1SB

LDC #: 16591B
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: R
2nd reviewer: R

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | 25.0 | 26.85 | 107 | 107 | 6 |
| Bromofluorobenzene | ↓ | 27.67 | 111 | 111 | ↓ |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | ↓ | 26.84 | 107 | 107 | ↓ |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Dibromofluoromethane | | | | | |

LDC #: 165913
SDG #: pu con

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: R
2nd Reviewer: R

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added

RPD = $1 MSC - MSDC | * 2 / (MSC + MSDC)$ MSC = Matrix spike percent recovery MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: MW3018 - W4031507 - 0001

| Compound | Spike Added (ug/L) | | Sample Concentration (ug/L) | Spiked Sample Concentration (ug/L) | | Matrix Spike Percent Recovery | | Matrix Spike Duplicate Percent Recovery | | MS/MSD RPD | |
|--------------------|--------------------|------|-----------------------------|------------------------------------|------|-------------------------------|---------|---|---------|------------|--------------|
| | MS | MSD | | MS | MSD | Reported | Recalc. | Reported | Recalc. | Reported | Recalculated |
| 1,1-Dichloroethene | 25.0 | 25.0 | ND | 24.7 | 24.4 | 99 | 99 | 98 | 98 | 1 | 1 |
| Trichloroethene | ↓ | | ND | 25.7 | 25.6 | 103 | 103 | 102 | 102 | 0 | 0 |
| Benzene | 25.0 | | 0.94 | 27.9 | 27.7 | 108 | 108 | 107 | 107 | 1 | 1 |
| Toluene | ↓ | | ND | 27.0 | 26.9 | 108 | 108 | 108 | 108 | 0 | 0 |
| Chlorobenzene | ↓ | ↓ | ND | 27.6 | 27.3 | 110 | 110 | 109 | 109 | 1 | 1 |

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 16591B)
SDG #: per cover

Page: 1 of 1
Reviewer: 1
2nd Reviewer: 1

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

Where: SSC = Spiked sample concentration
SA = Spike added

LCS D = Laboratory control sample duplicate percent recovery

[illegible]

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

BOE-C6-0054666

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

| | |
|---------|---|
| Y/N N/A | Were all reported results recalculated and verified for all level IV samples? |
| Y/N N/A | Were all recalculated results for detected target compounds agree within 10.0% of the reported results? |

$$\text{Concentration} = \frac{(A_s)(L)(DF)}{(A_r)(RRF)(V_r)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_s = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V. = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, Benzene

$$\text{Conc.} = \frac{(69826)(25)}{(144023)(1.069)} = 1.13 \text{ ug/L}$$
[illegible]

**Boeing Realty Corp., Bldg C-1 Long Beach
Data Validation Reports
LDC# 16591**

Semivolatiles

LDC

LDC Report# 16591B2

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-1 Long Beach

Collection Date: March 15, 2007

LDC Report Date: April 30, 2007

Matrix: Water

Parameters: Semivolatiles

Validation Level: Tier 3

Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC1776

Sample Identification

MW3017_WG031507_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all semivolatile target compounds and system performance check compounds (SPCCs) were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

The percent difference (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| LCS ID (Associated Samples) | Compound | LCS %R (Limits) | LCSD %R (Limits) | RPD (Limits) | Flag | A or P |
|--|----------------------------------|--------------------|---------------------|------------------|---|--------|
| 7C16066-LCS/D (All samples in SDG IQC1776) | 1,3-Dichlorobenzene | 29 (35-120) | - | 34 (≤ 25) | J (all detects) UJ (all non-detects) | P |
| | 1,4-Dichlorobenzene | 34 (35-120) | - | 27 (≤ 25) | | |
| | 1,2-Dichlorobenzene | 35 (40-120) | - | 31 (≤ 25) | | |
| | Hexachlorobutadiene | 37 (40-120) | - | 32 (≤ 25) | | |
| | Hexachloroethane | 28 (35-120) | - | 32 (≤ 25) | | |
| | 1,2,4-Trichlorobenzene | 41 (45-120) | - | 35 (≤ 20) | | |
| | Acenaphthene | - | - | 33 (≤ 20) | | |
| | Acenaphthylene | - | - | 30 (≤ 20) | | |
| | Anthracene | - | - | 23 (≤ 20) | | |
| | Benzo(a)anthracene | - | - | 24 (≤ 20) | | |
| | Benzo(k)fluoranthene | - | - | 23 (≤ 20) | | |
| | Benzyl alcohol | - | - | 33 (≤ 20) | | |
| | Bis(2-chloroethoxy)methane | - | - | 32 (≤ 20) | | |
| | Bis(2-chloroethyl) ether | - | - | 30 (≤ 20) | | |
| | Bis(2-chloroisopropyl) ether | - | - | 31 (≤ 20) | | |
| | Bis(2-ethylhexyl)phthalate | - | - | 25 (≤ 20) | | |
| | 4-Bromophenyl-phenyl ether | - | - | 29 (≤ 25) | | |
| | Butylbenzylphthalate | - | - | 26 (≤ 20) | | |
| | 4-Chloroaniline | - | - | 32 (≤ 25) | | |
| | 2-Chloronaphthalene | - | - | 32 (≤ 20) | | |
| | 4-Chloro-3-methylphenol | - | - | 33 (≤ 25) | | |
| | 2-Chlorophenol | - | - | 30 (≤ 25) | | |
| | 4-Chlorophenyl-phenyl ether | - | - | 33 (≤ 20) | | |
| | Chrysene | - | - | 28 (≤ 20) | | |
| | Dibenzofuran | - | - | 31 (≤ 20) | | |
| | 3,3'-Dichlorobenzidine | - | - | 31 (≤ 25) | | |
| | 2,4-Dichlorophenol | - | - | 33 (≤ 20) | | |
| | 2,4-Dimethylphenol | - | - | 39 (≤ 25) | | |
| | 2,4-Dinitrophenol | - | - | 26 (≤ 25) | | |
| | 2,4-Dinitrotoluene | - | - | 24 (≤ 20) | | |
| | 2,6-Dinitrotoluene | - | - | 30 (≤ 20) | | |
| | Di-n-octylphthalate | - | - | 30 (≤ 20) | | |
| | Fluoranthene | - | - | 21 (≤ 20) | | |
| | Fluorene | - | - | 34 (≤ 20) | | |
| | Hexachlorobenzene | - | - | 24 (≤ 20) | | |
| | Hexachlorocyclopentadiene | - | - | 70 (≤ 30) | | |
| | Isophorone | - | - | 32 (≤ 20) | | |
| | 2-Methylnaphthalene | - | - | 31 (≤ 20) | | |
| | 2-Methylphenol | - | - | 33 (≤ 20) | | |
| | 4-Methylphenol | - | - | 30 (≤ 20) | | |
| | Naphthalene | - | - | 29 (≤ 20) | | |
| | 2-Nitroaniline | - | - | 32 (≤ 20) | | |
| | 3-Nitroaniline | - | - | 30 (≤ 25) | | |
| | 4-Nitroaniline | - | - | 27 (≤ 20) | | |
| | Nitrobenzene | - | - | 34 (≤ 25) | | |
| | 2-Nitrophenol | - | - | 37 (≤ 25) | | |
| | N-Nitrosodiphenylamine | - | - | 24 (≤ 20) | | |
| | N-Nitroso-di-n-propylamine | - | - | 32 (≤ 20) | | |
| | Phenanthrene | - | - | 22 (≤ 20) | | |
| | Phenol | - | - | 29 (≤ 25) | | |
| | 2,4,5-Trichlorophenol | - | - | 35 (≤ 30) | | |
| | N-Nitrosodimethylamine | - | - | 30 (≤ 20) | | |
| | 1,2-Diphenylhydrazine/Azobenzene | - | - | 27 (≤ 25) | | |

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-1 Long Beach
Semivolatiles - Data Qualification Summary - SDG IQC1776

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------|----------------------|---|---|--------|--------------------------------------|
| IQC1776 | MW3017_WG031507_0001 | 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Hexachlorobutadiene Hexachloroethane 1,2,4-Trichlorobenzene Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(k)fluoranthene Benzyl alcohol Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether Bis(2-ethylhexyl) phthalate 4-Bromophenyl-phenyl ether Butylbenzylphthalate 4-Chloroaniline 2-Chloronaphthalene 4-Chloro-3-methylphenol 2-Chlorophenol 4-Chlorophenyl-phenyl ether Chrysene Dibenzofuran 3,3'-Dichlorobenzidine 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octylphthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorocyclopentadiene Isophorone 2-Methylnaphthalene 2-Methylphenol 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol N-Nitrosodiphenylamine N-Nitroso-di-n-propylamine Phenanthrene Phenol 2,4,5-Trichlorophenol N-Nitrosodimethylamine 1,2-Diphenylhydrazine/Azobenzene | J (all detects) UJ (all non-detects) | P | Laboratory control samples (%R)(RPD) |

Boeing Realty Corp., Bldg C-1 Long Beach
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG IQC1776

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Acenaphthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Acenaphthylene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ↓ | 0.948 | 03/16/07 | 03/20/07 | |
| Aniline | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Anthracene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Benzidine | EPA 8270C | 7C16066 | 8.1 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzoic acid | EPA 8270C | 7C16066 | 8.1 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(a)anthracene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(b)fluoranthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(k)fluoranthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(g,h,i)perylene | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzo(a)pyrene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Benzyl alcohol | EPA 8270C | 7C16066 | 2.4 | 19 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-chloroethoxy)methane | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-chloroethyl)ether | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-chloroisopropyl)ether | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Bis(2-ethylhexyl)phthalate | EPA 8270C | 7C16066 | 3.8 | 47 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Bromophenyl phenyl ether | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Butyl benzyl phthalate | EPA 8270C | 7C16066 | 3.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Chloroaniline | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Chloronaphthalene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Chloro-3-methylphenol | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Chlorophenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Chlorophenyl phenyl ether | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Chrysene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ✓ | 0.948 | 03/16/07 | 03/20/07 | |
| Dibenz(a,h)anthracene | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Dibenzofuran | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Di-n-butyl phthalate | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 1,3-Dichlorobenzene | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 1,4-Dichlorobenzene | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 1,2-Dichlorobenzene | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 3,3-Dichlorobenzidine | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dichlorophenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ✓ | 0.948 | 03/16/07 | 03/20/07 | |
| Diethyl phthalate | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dimethylphenol | EPA 8270C | 7C16066 | 3.3 | 19 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| Dimethyl phthalate | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4,6-Dinitro-2-methylphenol | EPA 8270C | 7C16066 | 3.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dinitrophenol | EPA 8270C | 7C16066 | 4.3 | 19 | ND UJ | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4-Dinitrotoluene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,6-Dinitrotoluene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Di-n-octyl phthalate | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Fluoranthene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND ↓ | 0.948 | 03/16/07 | 03/20/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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2642507

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Fluorene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Hexachlorobenzene | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Hexachlorobutadiene | EPA 8270C | 7C16066 | 3.3 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| Hexachlorocyclopentadiene | EPA 8270C | 7C16066 | 4.7 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Hexachloroethane | EPA 8270C | 7C16066 | 2.8 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| Indeno(1,2,3-cd)pyrene | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Isophorone | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Methylnaphthalene | EPA 8270C | 7C16066 | 1.9 | 9.5 | 13 | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Methylphenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Methylphenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Naphthalene | EPA 8270C | 7C16066 | 2.4 | 9.5 | 16 | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Nitroaniline | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 3-Nitroaniline | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Nitroaniline | EPA 8270C | 7C16066 | 2.4 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Nitrobenzene | EPA 8270C | 7C16066 | 2.4 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2-Nitrophenol | EPA 8270C | 7C16066 | 3.3 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 4-Nitrophenol | EPA 8270C | 7C16066 | 5.2 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| N-Nitrosodiphenylamine | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| N-Nitroso-di-n-propylamine | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | C |
| Pentachlorophenol | EPA 8270C | 7C16066 | 3.3 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Phenanthrene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Phenol | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| Pyrene | EPA 8270C | 7C16066 | 1.9 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 1,2,4-Trichlorobenzene | EPA 8270C | 7C16066 | 2.4 | 9.5 | ND | 0.948 | 03/16/07 | 03/20/07 | L2 |
| 2,4,5-Trichlorophenol | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 2,4,6-Trichlorophenol | EPA 8270C | 7C16066 | 2.8 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| N-Nitrosodimethylamine | EPA 8270C | 7C16066 | 2.4 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | |
| 1,2-Diphenylhydrazine/Azobenzene | EPA 8270C | 7C16066 | 1.9 | 19 | ND | 0.948 | 03/16/07 | 03/20/07 | C |
| Surrogate: 2-Fluorophenol (30-120%) | | | | | 65 % | | | | |
| Surrogate: Phenol-d6 (35-120%) | | | | | 73 % | | | | |
| Surrogate: 2,4,6-Tribromophenol (40-120%) | | | | | 83 % | | | | |
| Surrogate: Nitrobenzene-d5 (40-120%) | | | | | 79 % | | | | |
| Surrogate: 2-Fluorobiphenyl (45-120%) | | | | | 67 % | | | | |
| Surrogate: Terphenyl-d14 (45-120%) | | | | | 71 % | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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LDC #: 16591B2
SDG #: IQC1776
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

Tier 3

Date: 4/26/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/15/07 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | % PSD, $r^2 = 0.990$ |
| IV. | Continuing calibration | A | ICV = 25 |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | N | client specified |
| VIII. | Laboratory control samples | SW | les IP |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/CRQLs | A | |
| XIII. | Tentatively identified compounds (TICs) | N | not reported |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

[Signature]

| | | | | | | | |
|----|----------------------|----|--------------|----|--|----|--|
| 1 | MW3017-WG031507_0001 | 11 | 7C16066-BLK/ | 21 | | 31 | |
| 2 | | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

LDC #: 16591B2
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: Semivolatiles (EPA SW 846 Method 8270C)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| II. GC/MS instrument performance check | | | | |
| Were the DFTPP performance results reviewed and found to be within the specified criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples analyzed within the 12 hour clock criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a curve fit used for evaluation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a method blank analyzed for each matrix and concentration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

LDC #: 16591B2
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FR
2nd Reviewer: LC

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Was an LCS analyzed per extraction batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X. Internal Standards | | | | |
| Were internal standard area counts within -50% or +100% of the associated calibration standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were retention times within + 30 seconds from the associated calibration standard? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Target Compound Identification | | | | |
| Were relative retention times (RRT's) within + 0.06 RRT units of the standard? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were chromatogram peaks verified and accounted for? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. Compound quantitation/CRQLs | | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Tentatively identified compounds (TICs) | | | | |
| Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were relative intensities of the major ions within ± 20% between the sample and the reference spectra? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XIV. System performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XV. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XVI. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field duplicates. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XVII. Field blanks | | | | |
| Field blanks were identified in this SDG. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Target compounds were detected in the field blanks. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|-----------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl) ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. <i>Azobenzene</i> |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

LCSLCSD.2S

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-----|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
|---------|--------|-----------------|-----|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|

Batch: 7C16066 Extracted: 03/16/07

Blank Analyzed: 03/19/2007 (7C16066-BLK1)

| | | | | | | | | | | | |
|---------------------------------|------|--|--|------|------|--|----|--------|--|--|--|
| Surrogate: Phenol-d6 | 13.6 | | | ug/l | 20.0 | | 68 | 35-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 13.2 | | | ug/l | 20.0 | | 66 | 40-120 | | | |
| Surrogate: Nitrobenzene-d5 | 5.90 | | | ug/l | 10.0 | | 59 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 7.14 | | | ug/l | 10.0 | | 71 | 45-120 | | | |
| Surrogate: Terphenyl-d14 | 7.38 | | | ug/l | 10.0 | | 74 | 45-120 | | | |

LCS Analyzed: 03/19/2007 (7C16066-BS1)

MNR1

| | | | | | | | | | | | |
|-----------------------------|------|----|-----|------|-----|--|-----|--------|--|--|----|
| Acenaphthene | 64.6 | 10 | 2.0 | ug/l | 100 | | 65 | 55-120 | | | |
| Acenaphthylene | 72.4 | 10 | 2.0 | ug/l | 100 | | 72 | 60-120 | | | |
| Aniline | 78.3 | 10 | 2.5 | ug/l | 100 | | 78 | 40-120 | | | |
| Anthracene | 72.1 | 10 | 2.0 | ug/l | 100 | | 72 | 60-120 | | | |
| Benidine | 147 | 20 | 8.5 | ug/l | 100 | | 147 | 25-160 | | | |
| Benzoic acid | 31.7 | 20 | 8.5 | ug/l | 100 | | 32 | 25-120 | | | |
| Benzo(a)anthracene | 71.5 | 10 | 2.0 | ug/l | 100 | | 72 | 60-120 | | | |
| Benzo(b)fluoranthene | 82.5 | 10 | 2.0 | ug/l | 100 | | 82 | 55-125 | | | |
| Benzo(k)fluoranthene | 82.9 | 10 | 2.0 | ug/l | 100 | | 83 | 50-125 | | | |
| Benzo(g,h,i)perylene | 98.0 | 10 | 3.0 | ug/l | 100 | | 98 | 45-130 | | | |
| Benzo(a)pyrene | 88.8 | 10 | 2.0 | ug/l | 100 | | 89 | 55-125 | | | |
| Benzyl alcohol | 61.3 | 20 | 2.5 | ug/l | 100 | | 61 | 50-120 | | | |
| Bis(2-chloroethoxy)methane | 62.3 | 10 | 2.0 | ug/l | 100 | | 62 | 55-120 | | | |
| Bis(2-chloroethyl)ether | 54.6 | 10 | 2.5 | ug/l | 100 | | 55 | 50-120 | | | |
| Bis(2-chloroisopropyl)ether | 55.2 | 10 | 2.5 | ug/l | 100 | | 55 | 45-120 | | | |
| Bis(2-ethylhexyl)phthalate | 69.2 | 50 | 4.0 | ug/l | 100 | | 69 | 60-125 | | | |
| 4-Bromophenyl phenyl ether | 66.5 | 10 | 2.5 | ug/l | 100 | | 66 | 55-120 | | | |
| Butyl benzyl phthalate | 68.1 | 20 | 4.0 | ug/l | 100 | | 68 | 50-125 | | | |
| 4-Chloroaniline | 63.7 | 10 | 2.0 | ug/l | 100 | | 64 | 50-120 | | | |
| 2-Chloronaphthalene | 61.8 | 10 | 2.0 | ug/l | 100 | | 62 | 55-120 | | | |
| 4-Chloro-3-methylphenol | 61.4 | 20 | 2.0 | ug/l | 100 | | 61 | 55-120 | | | |
| 2-Chlorophenol | 57.6 | 10 | 2.0 | ug/l | 100 | | 58 | 45-120 | | | |
| 4-Chlorophenyl phenyl ether | 63.9 | 10 | 2.0 | ug/l | 100 | | 64 | 60-120 | | | |
| Chrysene | 69.5 | 10 | 2.0 | ug/l | 100 | | 70 | 60-120 | | | |
| Dibenz(a,h)anthracene | 94.5 | 20 | 3.0 | ug/l | 100 | | 94 | 50-135 | | | |
| Dibenzofuran | 64.0 | 10 | 2.0 | ug/l | 100 | | 64 | 60-120 | | | |
| Di-n-butyl phthalate | 75.7 | 20 | 2.0 | ug/l | 100 | | 76 | 55-125 | | | |
| 1,3-Dichlorobenzene | 29.3 | 10 | 3.0 | ug/l | 100 | | 29 | 35-120 | | | L2 |
| 1,4-Dichlorobenzene | 34.4 | 10 | 2.5 | ug/l | 100 | | 34 | 35-120 | | | L2 |

**D
E**

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-----|-------|-------------|---------------|--------|-------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | | |
| LCS Analyzed: 03/19/2007 (7C16066-BS1) | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 35.3 | 10 | 3.0 | ug/l | 100 | 35 | 40-120 | F | | | MNR1 L2 |
| 3,3-Dichlorobenzidine | 68.8 | 20 | 3.0 | ug/l | 100 | 69 | 50-135 | | | | |
| 2,4-Dichlorophenol | 56.7 | 10 | 2.0 | ug/l | 100 | 57 | 50-120 | | | | |
| Diethyl phthalate | 69.3 | 10 | 2.0 | ug/l | 100 | 69 | 50-120 | | | | |
| 2,4-Dimethylphenol | 45.8 | 20 | 3.5 | ug/l | 100 | 46 | 35-120 | | | | |
| Dimethyl phthalate | 60.9 | 10 | 2.0 | ug/l | 100 | 61 | 25-120 | | | | |
| 4,6-Dinitro-2-methylphenol | 71.9 | 20 | 4.0 | ug/l | 100 | 72 | 40-120 | | | | |
| 2,4-Dinitrophenol | 68.7 | 20 | 4.5 | ug/l | 100 | 69 | 35-120 | | | | |
| 2,4-Dinitrotoluene | 74.4 | 10 | 2.0 | ug/l | 100 | 74 | 60-120 | | | | |
| 2,6-Dinitrotoluene | 67.9 | 10 | 2.0 | ug/l | 100 | 68 | 60-120 | | | | |
| Di-n-octyl phthalate | 70.1 | 20 | 2.0 | ug/l | 100 | 70 | 60-130 | | | | |
| Fluoranthene | 76.3 | 10 | 2.0 | ug/l | 100 | 76 | 55-120 | | | | |
| Fluorene | 63.5 | 10 | 2.0 | ug/l | 100 | 64 | 60-120 | | | | |
| Hexachlorobenzene | 69.1 | 10 | 2.5 | ug/l | 100 | 69 | 55-120 | | | | |
| Hexachlorobutadiene | 36.9 | 10 | 3.5 | ug/l | 100 | 37 | 40-120 | U | | | L2 |
| Hexachlorocyclopentadiene | 34.2 | 20 | 5.0 | ug/l | 100 | 34 | 20-120 | | | | |
| Hexachloroethane | 27.9 | 10 | 3.0 | ug/l | 100 | 28 | 35-120 | K | | | L2 |
| Indeno(1,2,3-cd)pyrene | 95.4 | 20 | 3.0 | ug/l | 100 | 95 | 45-135 | | | | |
| Isophorone | 52.4 | 10 | 2.0 | ug/l | 100 | 52 | 50-120 | | | | |
| 2-Methylnaphthalene | 58.0 | 10 | 2.0 | ug/l | 100 | 58 | 50-120 | | | | |
| 2-Methylphenol | 59.6 | 10 | 2.0 | ug/l | 100 | 60 | 50-120 | | | | |
| 4-Methylphenol | 63.4 | 10 | 2.0 | ug/l | 100 | 63 | 45-120 | | | | |
| Naphthalene | 55.7 | 10 | 2.5 | ug/l | 100 | 56 | 50-120 | | | | |
| 2-Nitroaniline | 66.6 | 20 | 2.0 | ug/l | 100 | 67 | 60-120 | | | | |
| 3-Nitroaniline | 82.9 | 20 | 2.0 | ug/l | 100 | 83 | 55-120 | | | | |
| 4-Nitroaniline | 85.9 | 20 | 2.5 | ug/l | 100 | 86 | 50-125 | | | | |
| Nitrobenzene | 52.0 | 20 | 2.5 | ug/l | 100 | 52 | 50-120 | | | | |
| 2-Nitrophenol | 58.6 | 10 | 3.5 | ug/l | 100 | 59 | 45-120 | | | | |
| 4-Nitrophenol | 68.6 | 20 | 5.5 | ug/l | 100 | 69 | 40-120 | | | | |
| N-Nitrosodiphenylamine | 64.2 | 10 | 2.0 | ug/l | 100 | 64 | 55-120 | | | | |
| N-Nitroso-di-n-propylamine | 54.1 | 10 | 2.5 | ug/l | 100 | 54 | 45-120 | | | | |
| Pentachlorophenol | 83.2 | 20 | 3.5 | ug/l | 100 | 83 | 45-125 | | | | |
| Phenanthrene | 70.3 | 10 | 2.0 | ug/l | 100 | 70 | 60-120 | | | | |
| Phenol | 58.2 | 10 | 2.0 | ug/l | 100 | 58 | 45-120 | | | | |
| Pyrene | 67.8 | 10 | 2.0 | ug/l | 100 | 68 | 50-125 | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

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IQC1776 <Page 32 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | | |
| LCS Analyzed: 03/19/2007 (7C16066-BS1) | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 40.7 | 10 | 2.5 | ug/l | 100 | | 41 | 45-120 | R | | MNR1 L2 |
| 2,4,5-Trichlorophenol | 61.9 | 20 | 3.0 | ug/l | 100 | | 62 | 50-120 | | | |
| 2,4,6-Trichlorophenol | 63.2 | 20 | 3.0 | ug/l | 100 | | 63 | 50-120 | | | |
| N-Nitrosodimethylamine | 51.3 | 20 | 2.5 | ug/l | 100 | | 51 | 40-120 | | | |
| 1,2-Diphenylhydrazine/Azobenzene | 64.0 | 20 | 2.0 | ug/l | 100 | | 64 | 55-120 | | | |
| Surrogate: 2-Fluorophenol | 10.9 | | | ug/l | 20.0 | | 54 | 30-120 | | | |
| Surrogate: Phenol-d6 | 11.4 | | | ug/l | 20.0 | | 57 | 35-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 14.1 | | | ug/l | 20.0 | | 70 | 40-120 | | | |
| Surrogate: Nitrobenzene-d5 | 5.54 | | | ug/l | 10.0 | | 55 | 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 6.42 | | | ug/l | 10.0 | | 64 | 45-120 | | | |
| Surrogate: Terphenyl-d14 | 6.96 | | | ug/l | 10.0 | | 70 | 45-120 | | | |
| LCS Dup Analyzed: 03/19/2007 (7C16066-BSD1) | | | | | | | | | | | |
| Acenaphthene | 90.2 | 10 | 2.0 | ug/l | 100 | | 90 | 55-120 | 33 | 20 | GG R-7 |
| Acenaphthylene | 98.1 | 10 | 2.0 | ug/l | 100 | | 98 | 60-120 | 30 | 20 | DD R-7 |
| Aniline | 82.9 | 10 | 2.5 | ug/l | 100 | | 83 | 40-120 | 6 | 30 | |
| Anthracene | 90.8 | 10 | 2.0 | ug/l | 100 | | 91 | 60-120 | 23 | 20 | WW R-7 |
| Benzidine | 149 | 20 | 8.5 | ug/l | 100 | | 149 | 25-160 | 1 | 35 | |
| Benzoic acid | 32.5 | 20 | 8.5 | ug/l | 100 | | 32 | 25-120 | 2 | 30 | |
| Benzo(a)anthracene | 90.6 | 10 | 2.0 | ug/l | 100 | | 91 | 60-120 | 24 | 20 | CCC R-7 |
| Benzo(b)fluoranthene | 99.2 | 10 | 2.0 | ug/l | 100 | | 99 | 55-125 | 18 | 25 | |
| Benzo(k)fluoranthene | 104 | 10 | 2.0 | ug/l | 100 | | 104 | 50-125 | 23 | 20 | HHH R-7 |
| Benzo(g,h,i)perylene | 117 | 10 | 3.0 | ug/l | 100 | | 117 | 45-130 | 18 | 25 | |
| Benzo(a)pyrene | 108 | 10 | 2.0 | ug/l | 100 | | 108 | 55-125 | 20 | 25 | |
| Benzyl alcohol | 85.6 | 20 | 2.5 | ug/l | 100 | | 86 | 50-120 | 33 | 20 | QQ R-7 |
| Bis(2-chloroethoxy)methane | 85.8 | 10 | 2.0 | ug/l | 100 | | 86 | 55-120 | 32 | 20 | P R-7 |
| Bis(2-chloroethyl)ether | 74.2 | 10 | 2.5 | ug/l | 100 | | 74 | 50-120 | 30 | 20 | B R-7 |
| Bis(2-chloroisopropyl)ether | 75.8 | 10 | 2.5 | ug/l | 100 | | 76 | 45-120 | 31 | 20 | MMM R-7 |
| Bis(2-ethylhexyl)phthalate | 89.2 | 50 | 4.0 | ug/l | 100 | | 89 | 60-125 | 25 | 20 | EEE R-7 |
| 4-Bromophenyl phenyl ether | 89.2 | 10 | 2.5 | ug/l | 100 | | 89 | 55-120 | 29 | 25 | RR R-7 |
| Butyl benzyl phthalate | 88.2 | 20 | 4.0 | ug/l | 100 | | 88 | 50-125 | 26 | 20 | AAΔ R-7 |
| 4-Chloroaniline | 88.2 | 10 | 2.0 | ug/l | 100 | | 88 | 50-120 | 32 | 25 | T R-7 |
| 2-Chloronaphthalene | 85.1 | 10 | 2.0 | ug/l | 100 | | 85 | 55-120 | 32 | 20 | AA R-7 |
| 4-Chloro-3-methylphenol | 85.6 | 20 | 2.0 | ug/l | 100 | | 86 | 55-120 | 33 | 25 | V R-7 |
| 2-Chlorophenol | 78.1 | 10 | 2.0 | ug/l | 100 | | 78 | 45-120 | 30 | 25 | C R-7 |
| 4-Chlorophenyl phenyl ether | 89.0 | 10 | 2.0 | ug/l | 100 | | 89 | 60-120 | 33 | 20 | MM R-7 |

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Nicholas Marz
Project Manager

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IQC1776 <Page 33 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | | |
| LCS Dup Analyzed: 03/19/2007 (7C16066-BSD1) | | | | | | | | | | | |
| Chrysene | 92.3 | 10 | 2.0 | ug/l | 100 | | 92 | 60-120 | 28 | 20 PVD | R-7 |
| Dibenz(a,h)anthracene | 113 | 20 | 3.0 | ug/l | 100 | | 113 | 50-135 | 18 | 25 | |
| Dibenzofuran | 87.7 | 10 | 2.0 | ug/l | 100 | | 88 | 60-120 | 31 | 20 JJ | R-7 |
| Di-n-butyl phthalate | 90.8 | 20 | 2.0 | ug/l | 100 | | 91 | 55-125 | 18 | 20 | |
| 1,3-Dichlorobenzene | 41.4 | 10 | 3.0 | ug/l | 100 | | 41 | 35-120 | 34 | 25 P- | R-2 |
| 1,4-Dichlorobenzene | 45.3 | 10 | 2.5 | ug/l | 100 | | 45 | 35-120 | 27 | 25 E- | R-2 |
| 1,2-Dichlorobenzene | 48.2 | 10 | 3.0 | ug/l | 100 | | 48 | 40-120 | 31 | 25 F- | R-2 |
| 3,3-Dichlorobenzidine | 93.8 | 20 | 3.0 | ug/l | 100 | | 94 | 50-135 | 31 | 25 BBB | R-7 |
| 2,4-Dichlorophenol | 79.1 | 10 | 2.0 | ug/l | 100 | | 79 | 50-120 | 33 | 20 QX | R-7 |
| Diethyl phthalate | 88.0 | 10 | 2.0 | ug/l | 100 | | 88 | 50-120 | 24 | 30 | |
| 2,4-Dimethylphenol | 67.9 | 20 | 3.5 | ug/l | 100 | | 68 | 35-120 | 39 | 25 O | R-7 |
| Dimethyl phthalate | 79.9 | 10 | 2.0 | ug/l | 100 | | 80 | 25-120 | 27 | 30 | |
| 4,6-Dinitro-2-methylphenol | 89.2 | 20 | 4.0 | ug/l | 100 | | 89 | 40-120 | 21 | 25 | |
| 2,4-Dinitrophenol | 89.6 | 20 | 4.5 | ug/l | 100 | | 90 | 35-120 | 26 | 25 HH | R-7 |
| 2,4-Dinitrotoluene | 94.7 | 10 | 2.0 | ug/l | 100 | | 95 | 60-120 | 24 | 20 KK | R-7 |
| 2,6-Dinitrotoluene | 91.8 | 10 | 2.0 | ug/l | 100 | | 92 | 60-120 | 30 | 20 EE | R-7 |
| Di-n-octyl phthalate | 94.5 | 20 | 2.0 | ug/l | 100 | | 94 | 60-130 | 30 | 20 FFF | R-7 |
| Fluoranthene | 94.1 | 10 | 2.0 | ug/l | 100 | | 94 | 55-120 | 21 | 20 YY | R-7 |
| Fluorene | 89.1 | 10 | 2.0 | ug/l | 100 | | 89 | 60-120 | 34 | 20 NN | R-7 |
| Hexachlorobenzene | 88.1 | 10 | 2.5 | ug/l | 100 | | 88 | 55-120 | 24 | 20 SS | R-7 |
| Hexachlorobutadiene | 50.8 | 10 | 3.5 | ug/l | 100 | | 51 | 40-120 | 32 | 25 U- | R-2 |
| Hexachlorocyclopentadiene | 71.2 | 20 | 5.0 | ug/l | 100 | | 71 | 20-120 | 70 | 30 X | R-7 |
| Hexachloroethane | 38.6 | 10 | 3.0 | ug/l | 100 | | 39 | 35-120 | 32 | 25 K- | R-2 |
| Indeno(1,2,3-cd)pyrene | 113 | 20 | 3.0 | ug/l | 100 | | 113 | 45-135 | 17 | 25 JJ | |
| Isophorone | 72.0 | 10 | 2.0 | ug/l | 100 | | 72 | 50-120 | 32 | 20 MM | R-7 |
| 2-Methylnaphthalene | 79.6 | 10 | 2.0 | ug/l | 100 | | 80 | 50-120 | 31 | 20 W | R-7 |
| 2-Methylphenol | 82.8 | 10 | 2.0 | ug/l | 100 | | 83 | 50-120 | 33 | 20 G | R-7 |
| 4-Methylphenol | 85.5 | 10 | 2.0 | ug/l | 100 | | 86 | 45-120 | 30 | 20 I | R-7 |
| Naphthalene | 74.9 | 10 | 2.5 | ug/l | 100 | | 75 | 50-120 | 29 | 20 S | R-7 |
| 2-Nitroaniline | 92.3 | 20 | 2.0 | ug/l | 100 | | 92 | 60-120 | 32 | 20 BB | R-7 |
| 3-Nitroaniline | 112 | 20 | 2.0 | ug/l | 100 | | 112 | 55-120 | 30 | 25 FF | R-7 |
| 4-Nitroaniline | 113 | 20 | 2.5 | ug/l | 100 | | 113 | 50-125 | 27 | 20 OO | R-7 |
| Nitrobenzene | 73.2 | 20 | 2.5 | ug/l | 100 | | 73 | 50-120 | 34 | 25 L | R-7 |
| 2-Nitrophenol | 85.2 | 10 | 3.5 | ug/l | 100 | | 85 | 45-120 | 37 | 25 N | R-7 |
| 4-Nitrophenol | 90.2 | 20 | 5.5 | ug/l | 100 | | 90 | 40-120 | 30 | 20 X | |

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Nicholas Marz
Project Manager

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IQC1776 <Page 34 of 37>

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------------------|---------|-----------|-----------------|
| Batch: 7C16066 Extracted: 03/16/07 | | | | | | | | | | |
| LCS Dup Analyzed: 03/19/2007 (7C16066-BSD1) | | | | | | | | | | |
| N-Nitrosodiphenylamine | 81.3 | 10 | 2.0 | ug/l | 100 | | 81 55-120 | 24 | 20 | QQ R-7 |
| N-Nitroso-di-n-propylamine | 74.7 | 10 | 2.5 | ug/l | 100 | | 75 45-120 | 32 | 20 | J R-7 |
| Pentachlorophenol | 106 | 20 | 3.5 | ug/l | 100 | | 106 45-125 | 24 | 25 | |
| Phenanthrene | 87.3 | 10 | 2.0 | ug/l | 100 | | 87 60-120 | 22 | 20 | UU R-7 |
| Phenol | 78.3 | 10 | 2.0 | ug/l | 100 | | 78 45-120 | 29 | 25 | A R-7 |
| Pyrene | 83.6 | 10 | 2.0 | ug/l | 100 | | 84 50-125 | 21 | 25 | |
| 1,2,4-Trichlorobenzene | 58.0 | 10 | 2.5 | ug/l | 100 | | 58 45-120 | 35 | 20 | R- R-2 |
| 2,4,5-Trichlorophenol | 88.2 | 20 | 3.0 | ug/l | 100 | | 88 50-120 | 35 | 30 | Z R-7 |
| 2,4,6-Trichlorophenol | 84.6 | 20 | 3.0 | ug/l | 100 | | 85 50-120 | 29 | 30 | |
| N-Nitrosodimethylamine | 69.6 | 20 | 2.5 | ug/l | 100 | | 70 40-120 | 30 | 20 | ooo R-7 |
| 1,2-Diphenylhydrazine/Azobenzene | 84.3 | 20 | 2.0 | ug/l | 100 | | 84 55-120 | 27 | 25 | R-7 |
| Surrogate: 2-Fluorophenol | 14.9 | | | ug/l | 20.0 | | 74 30-120 | | | |
| Surrogate: Phenol-d6 | 15.9 | | | ug/l | 20.0 | | 80 35-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 19.0 | | | ug/l | 20.0 | | 95 40-120 | | | |
| Surrogate: Nitrobenzene-d5 | 7.64 | | | ug/l | 10.0 | | 76 40-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 8.82 | | | ug/l | 10.0 | | 88 45-120 | | | |
| Surrogate: Terphenyl-d14 | 8.86 | | | ug/l | 10.0 | | 89 45-120 | | | |

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Nicholas Marz
Project Manager

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IQC1776 <Page 35 of 37>

VALIDATION FINDINGS WORKSHEET
 Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_s)(C_s)/(A_u)(C_u)$
 average RRF = sum of the RRFs/number of standards
 $\%RSD = 100 * (S/X)$
 A_s = Area of compound,
 C_s = Concentration of compound,
 S = Standard deviation of the RRFs,
 X = Mean of the RRFs
 A_u = Area of associated internal standard
 C_u = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported | | Recalculated | | Reported | | Recalculated | | Reported | | Recalculated | |
|---|-------------|------------------|--|-----------------|------------------|------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|
| | | | | RRF (std) | RRF (std) | RRF (std) | RRF (std) | Average RRF (Initial) | Average RRF (Initial) | Average RRF (Initial) | Average RRF (Initial) | %RSD | %RSD | %RSD | %RSD |
| 1 | KAL-8 | 3/3/07 | Phenol (1st internal standard) | 2.11 | 2.11 | 2.11 | 2.11 | 2.125 | 2.125 | 2.125 | 2.125 | 4.0 | 4.0 | 4.0 | 4.0 |
| | | | Naphthalene (2nd internal standard) | 1.036 | 1.036 | 1.036 | 1.036 | 1.030 | 1.030 | 1.030 | 1.030 | 5.90 | 5.90 | 5.90 | 5.90 |
| | | | Fluorene (3rd internal standard) | 1.32 | 1.32 | 1.32 | 1.32 | 1.268 | 1.268 | 1.268 | 1.268 | 9.44 | 9.44 | 9.44 | 9.44 |
| | | | Pentachlorophenol (4th internal standard) | 1.18 | 1.093 | 1.093 | 1.093 | 1.059 | 1.059 | 1.059 | 1.059 | 7.16 | 7.16 | 7.16 | 7.16 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | 1.396 | 1.396 | 1.396 | 1.396 | 1.308 | 1.308 | 1.308 | 1.308 | 3.67 | 3.67 | 3.67 | 3.67 |
| | | | Benzo(a)pyrene (6th internal standard) | 1.205 | 1.205 | 1.205 | 1.205 | 1.192 | 1.192 | 1.192 | 1.192 | 4.89 | 4.89 | 4.89 | 4.89 |
| 2 | | | Phenol (1st internal standard) | | | | | | | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | | | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | | | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 16591B2
SDG #: recovered

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: ave. RRF = initial calibration average RRF
RRF = $(A_x)(C_b) / (A_b)(C_x)$ RRF = continuing calibration RRF
 A_x = Area of compound, A_b = Area of associated internal standard
 C_x = Concentration of compound, C_b = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Average RRF (Initial) | Reported | | Recalculated | |
|---|-------------|------------------|--|-----------------------|----------|-----|--------------|-----|
| | | | | | RRF (CC) | %D | RRF (CC) | %D |
| 1 | cen | 3/20/07 | Phenol (1st internal standard) | 2.125 | 2.072 | 2.5 | 2.072 | 2.5 |
| | | | Naphthalene (2nd internal standard) | 1.030 | 1.092 | 6.0 | 1.092 | 6.0 |
| | | | Fluorene (3rd internal standard) | 1.268 | 1.323 | 4.3 | 1.323 | 4.3 |
| | | | Pentachlorophenol (4th internal standard) | 1.059 | 1.117 | 5.5 | 1.117 | 5.5 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | 1.308 | 1.392 | 6.4 | 1.392 | 6.4 |
| | | | Benzo(a)pyrene (6th internal standard) | 1.192 | 1.192 | 0.0 | 1.192 | 0.0 |
| 2 | | | Phenol (1st internal standard) | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.2S

LDC #: 1659132
SDG #: see cover

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: A
2nd reviewer: N

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|------------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Nitrobenzene-d5 | 5 | 3.95 | 79 | 79 | 0 |
| 2-Fluorobiphenyl | ↓ | 3.37 | 67 | 67 | ↓ |
| Terphenyl-d14 | ↓ | 3.56 | 71 | 71 | ↓ |
| Phenol-d5 | 10 | 7.29 | 73 | 73 | ↓ |
| 2-Fluorophenol | ↓ | 6.49 | 65 | 65 | ↓ |
| 2,4,6-Tribromophenol | ↓ | 8.30 | 83 | 83 | ↓ |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|------------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

Sample ID: _____

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|------------------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | |
|---|---|-----|---|
| Y | N | N/A | Were all reported results recalculated and verified for all level IV samples? |
| Y | N | N/A | Were all recalculated results for detected target compounds agree within 10.0% of the reported results? |

$$\text{Concentration} = \frac{(A_s)(I_s)(V_s)(DF)(2.0)}{(A_r)(RRF)(V_r)(V_i)(\%S)}$$

| | | |
|-------|---|--|
| A_x | = | Area of the characteristic ion (EICP) for the compound to be measured |
| A_s | = | Area of the characteristic ion (EICP) for the specific internal standard |
| i_s | = | Amount of internal standard added in nanograms (ng) |
| V_o | = | Volume or weight of sample extract in milliliters (ml) or grams (g). |
| V_i | = | Volume of extract injected in microliters (ul) |
| V_t | = | Volume of the concentrated extract in microliters (ul) |
| Df | = | Dilution Factor. |
| %S | = | Percent solids, applicable to soil and solid matrices only. |
| 2.0 | = | Factor of 2 to account for GPC cleanup |

Example:

Example.

Sample I.D. Fl, Naphthalene

$$\text{Conc.} = \frac{(365945) \times 40 \times 2 \times 1000}{1654509 \times 1.030 \times 1055}$$

$$= 16 \mu\text{g/L}$$

[illegible]

**Boeing Realty Corp., Bldg C-1 Long Beach
Data Validation Reports
LDC# 16591**

Hexavalent Chromium

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-1 Long Beach
Collection Date: March 8, 2007
LDC Report Date: April 26, 2007
Matrix: Water
Parameters: Hexavalent chromium
Validation Level: Tier 1, 2, & 3
Laboratory: TestAmerica

Sample Delivery Group (SDG): IQC0980

Sample Identification

MW3009_WG030807_0001
MW3012_WG030807_0001*
MW3012_WG030807_0002**

*Indicates sample underwent Tier 2 review
**Indicates sample underwent Tier 3 review
All other samples underwent Tier 1 review

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 7196A for Hexavalent chromium.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Samples indicated by a double asterisk on the front cover underwent a Tier 3 review. A Tier 2 or Tier 1 review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Tier 2 or Tier 1 criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

Initial calibration data were not reviewed for Tier I.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

Calibration verification data were not reviewed for Tier I.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Tier 3 review was performed. Raw data were not evaluated for the samples reviewed by Tier 2 or Tier 1 criteria.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration (ug/L) | | RPD |
|---------------------|-----------------------|------------------------|-----|
| | MW3012_WG030807_0001* | MW3012_WG030807_0002** | |
| Hexavalent chromium | 1.3 | 0.98 | 28 |

X. Field Blanks

No field blanks were identified in this SDG.

**Boeing Realty Corp., Bldg C-1 Long Beach
Hexavalent chromium - Data Qualification Summary - SDG IQC0980**

No Sample Data Qualified in this SDG

**Boeing Realty Corp., Bldg C-1 Long Beach
Hexavalent chromium - Laboratory Blank Data Qualification Summary - SDG
IQC0980**

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701-05
Report Number: IQC0980

Sampled: 03/08/07
Received: 03/08/07

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IQC0980-01 (TB-TAIT030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | ND | 1 | 03/08/07 | 03/08/07 | |
| Sample ID: IQC0980-02 (MW3009_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | ND | 1 | 03/08/07 | 03/08/07 | |
| Sample ID: IQC0980-03 (MW3016_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 11 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-04 (MW3015_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 49 | 1 | 03/08/07 | 03/08/07 | |
| Sample ID: IQC0980-05 (MW3014_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 13 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-06 (MW3013_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 3.4 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-07 (MW3012_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 1.3 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-08 (MW3012_WG030807_0002 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 0.98 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-09 (MW3011_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 0.65 | 25 | 4.7 | 1 | 03/08/07 | 03/08/07 | J |
| Sample ID: IQC0980-10 (MW3010_WG030807_0001 - Water) | | | | | Sampled: 03/08/07 | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Chromium VI | EPA 7196A | 7C08171 | 3.2 | 120 | 140 | 5 | 03/08/07 | 03/08/07 | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

161/2507

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IQC0980 <Page 2 of 7>

LDC #: 16591A6
SDG #: IQC0980
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET Tier 1/2/3

Date: 4/21/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Hexavalent Chromium (EPA SW846 Method 7196A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|--|
| I. | Technical holding times | A | Sampling dates: 3/8/07 |
| IIa. | Initial calibration | A | Not reviewed for Tier I validation. |
| IIb. | Calibration verification | A | Not reviewed for Tier I validation. |
| III. | Blanks | A | |
| IVa. | Matrix Spike/(Matrix Spike) Duplicates | A | MS/MSD IQC0980-01 |
| IVb. | Laboratory control samples | A | LCs |
| V. | Sample result verification | A | Not reviewed for Tier I or Tier II validation. |
| VI. | Overall assessment of data | A | |
| VII. | Field duplicates | SW | (2,3) |
| VIII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
N = Not provided/applicable R = Rinsate TB = Trip blank
SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: * Indicates sample underwent Tier I validation, ** Indicates sample underwent Tier III validation

| | | | | | | | |
|----|------------------------|----|--|----|--|----|--|
| 1 | MW3009_WG030807_0001\ | 11 | | 21 | | 31 | |
| 2 | MW3012_WG030807_0001* | 12 | | 22 | | 32 | |
| 3 | MW3012_WG030807_0002** | 13 | | 23 | | 33 | |
| 4 | MB | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 1651A6
SDG #: See com

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: dy
2nd Reviewer: JK

Method: Inorganics (EPA Method 7196A)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-----|----|----|-------------------|
| I. Sample Holding Time | | | | |
| All technical holding times were met. | / | | | |
| Cooler temperature criteria was met. | / | | | |
| II. Calibration | | | | |
| Were all instruments calibrated daily, each set-up time? | / | | | |
| Were the proper number of standards used? | / | | | |
| Were all initial calibration correlation coefficients > 0.995? | / | | | |
| Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? | / | | | |
| Were titrant checks performed as required? (Level IV only) | | | / | |
| Were balance checks performed as required? (Level IV only) | | | / | |
| III. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | / | | | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | | / | | |
| IV. Matrix spike/Matrix spike duplicates and Duplicates | | | | |
| Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water. | / | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. | / | | | |
| Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL. | / | | | |
| V. Laboratory Control Samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |
| Was an LCS analyzed per extraction batch? | / | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits? | / | | | |
| VI. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | | | / | |
| Were the performance evaluation (PE) samples within the acceptance limits? | | | / | |

LDC #: 16591 kb
 SDG #: see con

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
 Reviewer: my
 2nd Reviewer: R

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-----|----|----|-------------------|
| III. Sample Result Verification | | | | |
| Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | ✓ | | | |
| Were detection limits < RL? | ✓ | | | |
| IV. Overall Assessment of Data | | | | |
| Overall assessment of data was found to be acceptable. | ✓ | | | |
| V. Field Duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | ✓ | | | |
| Target analytes were detected in the field duplicates. | ✓ | | | |
| VI. Field Blanks | | | | |
| Field blanks were identified in this SDG. | | ✓ | | |
| Target analytes were detected in the field blanks. | | | ✓ | |

LDC#: 16591A6
SDG#: IQC0980

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Inorganics, Method 7196A

☒ Y N NA
☒ Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

| Analyte | Concentration (ug/L) | | RPD | |
|---------|----------------------|------|-----|--|
| | 2 | 3 | | |
| Cr (VI) | 1.3 | 0.98 | 28 | |

V:\FIELD DUPLICATES\FD_inorganic\16591A6.wpd

LDC #: 1651A6
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: WJ
2nd Reviewer: AL

METHOD: Inorganics, Method 7196A

The correlation coefficient (r) for the calibration of Cu⁶⁺ was recalculated. Calibration date: 3/8/07

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = $\frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

| Type of Analysis | Analyte | | $C_{true} \text{ (ug/L)} \text{ (units)}$ | $C_{true} \text{ (units)}$ | Recalculated r or %R | Reported r or %R | Acceptable (Y/N) |
|---------------------------------|------------------|------------|---|----------------------------|----------------------------|---------------------|---------------------|
| Initial calibration | | Blank | 0 | 0 | | | |
| Calibration verification | Cu ⁶⁺ | Standard 1 | 0.01 | 0.007 | r = 0.99997 %R = 99.998 | NR | Y |
| | | Standard 2 | 0.025 | 0.023 | | | |
| | | Standard 3 | 0.1 | 0.083 | | | |
| | | Standard 4 | 0.5 | 0.414 | | | |
| | | Standard 5 | | | | | |
| | | Standard 6 | | | | | |
| | | Standard 7 | | | | | |
| Calibration verification ICV | Cu ⁶⁺ | 0.1 | 0.101 | | 101 | NR | Y |
| Calibration verification CCV | Cu ⁶⁺ | 0.3 | 0.310 | | 103 | NR | Y |
| Calibration verification | | | | | | | |

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCULC.8

LDC #: 16591A6
SDG #: See above

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MM
2nd Reviewer: AC

METHOD: Inorganics, Method 9196A

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$
 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
D = Duplicate sample concentration

| Sample ID | Type of Analysis | Element | Found / s (units) | True / D (units) | Recalculated | | Reported | | Acceptable (Y/N) |
|-----------------|---------------------------|------------------|----------------------|----------------------|--------------|----------|----------|--|---------------------|
| | | | | | %R / RPD | %R / RPD | | | |
| LC5 | Laboratory control sample | Cu ⁶⁺ | 1.01 | 1.00 1.00 | 1.01 | 1.01 | 1.01 | | Y |
| SPC-6980 101 | Matrix spike sample | ↓ | 305 (SSR-SR) | 300 | 102 | 102 | 102 | | Y |
| 1 | Duplicate sample | | 304 | 305. | 0 | 0 | 0 | | Y |

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #:

SDG #:

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page:

Reviewer

2nd reviewer

METHOD: Inorganics, Method

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Have results been reported and calculated correctly?

| | | |
|--------------|---|-----|
| Y | N | N/A |
|--------------|---|-----|

Are results within the calibrated range of the instruments?

Y N N/A

Are all detection limits below the CRQL?

Compound (analyte) results for 3 reported with a positive detect were

recalculated and verified using the following equation:

Concentration =

Recalculation:

$$C_{VH_2} = \frac{64 - 0.000292}{0.827}$$

$$C_{\text{VH}} = \frac{0.501 - 0.000292}{0.829} = 0.00086 \text{ mg/L}$$

[illegible]

Note:

RECALC.6

**Boeing Realty Corp., Bldg C-1 Long Beach
Data Validation Reports
LDC# 16591**

TPH as Extractables

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-1 Long Beach
Collection Date: March 15, 2007
LDC Report Date: April 30, 2007
Matrix: Water
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Tier 3
Laboratory: TestAmerica
Sample Delivery Group (SDG): IQC1776
Sample Identification
MW3017_WG031507_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

All target compound identifications were within validation criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

VII. System Performance

The system performance was acceptable.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been summarized.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-1 Long Beach
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG
IQC1776

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-1 Long Beach
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification
Summary - SDG IQC1776

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-1 Long Beach
EM-2701
Report Number: IQC1776

Sampled: 03/15/07
Received: 03/15/07

HYDROCARBON DISTRIBUTION (EPA 3510C/8015 Mod.)

| Analyte | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | % of Total | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|--------------|--------------------|------------------|--------------------|---------------|-------------------|------------------|--------------------|
| Sample ID: IQC1776-04 (MW3017_WG031507_0001 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| EFH (C6 - C44) | 7C22062 | 0.094 | 0.47 | 4.9 | 1 | 100 | 3/22/2007 | 3/22/2007 | |
| EFH (C6 - C7) | 7C22062 | 0.094 | 0.094 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C8 - C9) | 7C22062 | 0.094 | 0.094 | 0.15 | 1 | 3 | 3/22/2007 | 3/22/2007 | |
| EFH (C10 - C11) | 7C22062 | 0.094 | 0.094 | 0.79 | 1 | 16 | 3/22/2007 | 3/22/2007 | |
| EFH (C12 - C13) | 7C22062 | 0.094 | 0.094 | 1.1 | 1 | 22 | 3/22/2007 | 3/22/2007 | |
| EFH (C14 - C15) | 7C22062 | 0.094 | 0.094 | 1.4 | 1 | 29 | 3/22/2007 | 3/22/2007 | |
| EFH (C16 - C17) | 7C22062 | 0.094 | 0.094 | 0.93 | 1 | 19 | 3/22/2007 | 3/22/2007 | |
| EFH (C18 - C19) | 7C22062 | 0.094 | 0.094 | 0.29 | 1 | 6 | 3/22/2007 | 3/22/2007 | |
| EFH (C20 - C23) | 7C22062 | 0.042 | 0.042 | 0.084 | 1 | 2 | 3/22/2007 | 3/22/2007 | |
| EFH (C24 - C27) | 7C22062 | 0.042 | 0.042 | 0.045 | 1 | 1 | 3/22/2007 | 3/22/2007 | |
| EFH (C28 - C31) | 7C22062 | 0.042 | 0.042 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C32 - C35) | 7C22062 | 0.094 | 0.094 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C36 - C39) | 7C22062 | 0.042 | 0.042 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| EFH (C40 - C44) | 7C22062 | 0.042 | 0.042 | ND | 1 | N/A | 3/22/2007 | 3/22/2007 | |
| Surrogate: n-Octacosane (40-125%) | | | | 97 % | | | | | |

TestAmerica - Irvine, CA
Nicholas Marz
Project Manager

Handwritten signature

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IQC1776 <Page 18 of 37>

LDC #: 16591B8
SDG #: IQC1776
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET EPA Region 1 - Tier 3

Date: 4/25/07
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 3/15/07 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | A | |
| IVb. | Matrix spike/Matrix spike duplicates | N | Chemt specified |
| IVc. | Laboratory control samples | A | Les 10 |
| V. | Target compound identification | A | |
| VI. | Compound Quantitation and CRQLs | A | |
| VII. | System Performance | A | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | N | |
| X. | Field blanks | N | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

water

| | | | | | | | |
|----|----------------------|----|-------------|----|--|----|--|
| 1 | MW3017-WG031507_0001 | 11 | TC22062-B41 | 21 | | 31 | |
| 2 | | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes:

LDC #: 1659138
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: PS
2nd Reviewer: AL

Method: GC HPLC

| Validation Area | Yes | No | NA | Findings/Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Technical holding times | | | | |
| All technical holding times were met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Cooler temperature criteria was met. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Did the initial calibration meet the curve fit acceptance criteria? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the RT windows properly established? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Continuing calibration | | | | |
| What type of continuing calibration calculation was performed? ____ %D or %R | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a continuing calibration analyzed daily? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all percent differences (%D) < 15% or percent recoveries 85-115%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all the retention times within the acceptance windows? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was a method blank analyzed for each matrix and concentration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Surrogate spikes | | | | |
| Were all surrogate %R within the QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was an LCS analyzed per extraction batch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

LDC #: 16591B8
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JS
2nd Reviewer: A

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Were the performance evaluation (PE) samples within the acceptance limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| X. Target compound identification | | | | |
| Were the retention times of reported detects within the RT windows? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XI. Compound quantitation/CRQLs | | | | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XII. System performance | | | | |
| System performance was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIII. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| XIV. Field duplicates | | | | |
| Were field duplicate pairs identified in this SDG? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were target compounds detected in the field duplicates? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| XV. Field blanks | | | | |
| Were field blanks identified in this SDG? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Were target compounds detected in the field blanks? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

LDC #: 1659188
SDG #: per covered

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: R
2nd Reviewer: R

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

| # | Standard ID | Calibration Date | Compound | Reported | | Recalculated | | Reported | | Recalculated | |
|---|-------------|------------------|----------|--------------|--------------|--------------|--------------|----------------------|-------|----------------------|-------|
| | | | | CF (1SD std) | CF (1SD std) | CF (1SD std) | CF (1SD std) | Average CF (Initial) | %RSD | Average CF (Initial) | %RSD |
| 1 | 142L | 3/3/07 | EFH | 2873.4 | 2443.4 | 2443.4 | 2443.4 | 2787.17 | 11.14 | 2787.17 | 11.14 |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

HPLC

Where: $\% \text{ Difference} = 100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
 $\text{CF} = A/C$
 ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

LDC #: 1659188
SDG #: per cover
METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

Where: SF = Surrogate Found
SS = Surrogate Spiked

% Recovery: $SF/SS \times 100$

Sample ID: # 1

| Surrogate | Column/Detector | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|--------------|-----------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| n-octacosane | not specified | 100 | 97.4363 | 97 | 97 | 0 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sample ID: _____

| Surrogate | Column/Detector | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------|-----------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Sample ID: _____

| Surrogate | Column/Detector | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|-----------|-----------------|------------------|-----------------|---------------------------|-------------------------------|--------------------|
| | | | | | | |
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LDC #: 16591038
SDG #: per case

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 6 of 7
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 \cdot (SSC - SC) / SA$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

RPD = $((SSCLCS - SSCLCSD) \cdot 2) / (SSCLCS + SSCLCSD) \cdot 100$

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 7022062-135

| Compound | Spike Added (mg/L) | | Sample Conc. (mg/L) | Spike Sample Concentration (mg/L) | | LCS | | LCSD | | Percent Recovery | | LCS/LCSD | |
|------------------------------|-----------------------|------|------------------------|--------------------------------------|-------|----------|---------|----------|---------|------------------|---------|----------|---------|
| | LCS | LCSD | | LCS | LCSD | Reported | Recalc. | Reported | Recalc. | Reported | Recalc. | Reported | Recalc. |
| Gasoline (8015) | | | | | | | | | | | | | |
| Diesel (8015) | | | | | | | | | | | | | |
| Benzene (8021B) | | | | | | | | | | | | | |
| Methane (RSK-175) | | | | | | | | | | | | | |
| 2,4-D (8151) | | | | | | | | | | | | | |
| Dinoseb (8151) | | | | | | | | | | | | | |
| Naphthalene (8310) | | | | | | | | | | | | | |
| Anthracene (8310) | | | | | | | | | | | | | |
| HMX (8330) | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene (8330) | | | | | | | | | | | | | |
| BFA | 1.0 | 1.0 | 0 | 0.931 | 0.806 | 93 | 93 | 81 | 81 | 14 | 14 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 1659108
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

Y N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds agree within 10% of the reported results?

Concentration = $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$
Example: Sample ID #1 Compound Name EFT c6-ayy
Concentration = 14562237.58 (1)
2787-17 (1060)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

= 4.9 mg/L

| # | Sample ID | Compound | Reported Concentrations | Recalculated Results Concentrations | Qualifications |
|---|-----------|----------|-------------------------|-------------------------------------|----------------|
| | | | | | |
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Comments: _____

LDC #16739 (Tait Environmental Management, Inc. / Boeing Realty Corp., Bldg C-1 Long Beach)

[illegible]

Shaded cells indicate Tier III validation (all other cells are Tier II validation). Sample counts do not include MS, MSD, or DUP's.

16739ST.wpd